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FACTORY

Tescom formerly known as
Tümel Elektronik located in
Izmir-Turkey is an
independently owned
corporation, offering a wide
range of power protection
products and services to a
wide spectrum of industries
and sectors.
During the establishment

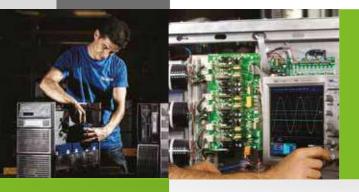
During the establishment
years the company was
manufacturing electronic
control devices and inverters,

then in 1986 when the IT
sector started developing
rapidly, Tescom sensed the
great need for clean,
uninterruptible power and
started designing and
manufacturing Uninterruptible
Power Supplies. As well as an
extensive standard UPS range
Tescom also offers a variety of
other products such as static
transfer switch (STS),
frequency and voltage
converters, inverters and
rectifiers under it's registered

trademark "Tescom". Today
all Tescom branded power
protection products are
manufactured by a group of
almost 20 greatly
experienced engineers and
staff of over 230 people.



Tescom is a member of DMY Electronic Investments Group (www.dmyelektronik.com)





One of the greatest
advantages of Tescom has
always been, flexibility. Which
means we do not only offer
standard products. Thank's to
our high experienced R&D
team we also design and
manufacture products
according to customers
requirements.
Tescom has always made
widespread use of the latest

technologies in manufacturing, which complies with all the necessary international standards and norms. All these past years of experience, has lead to over 250,000 manufactured power protection products which have been delivered to customers in more than 40 countries in 4 continents.



developments and

















R&D

Tescom's R&D department is
the most valuable asset to
this company since the day it
was founded. All engineers
working here are the most
experienced ones in the
country in the field of power
electronics. This team has the
knowledge and skill to create
and launch a new product

into the market within a very
short period of time. Besides,
this R&D team has also ability
to implement special request
specifications to the standard
manufactured products, faster
and more efficiently than the
competitors.
Thanks to the large budget
allowance given every year a

considerable amount of

investment is being made to
this department and as a
result today Tescom is in a
very pretentious position both
in domestic and international
markets.

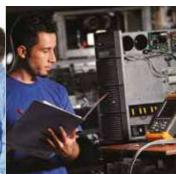




T.C. Ministry of Industry and Technology

As a result of ongoing investments in power electronics and energy, the "Ministry of Science, Industry & Technology" has certified Tescom to be Turkey's 455th R&D center.







Due to the close and strong
relations with the international
suppliers, Tescom has always
been a company using and
applying the latest technology
materials and components in
the products manufactured.
Since day one the goal of the
Tescom's R&D team has

always been to follow up the

latest technological

developments in the market and

detect the customer demands,

then create and launch a

product accordingly.





LEO SERIES

UNINTERRUPTIBLE POWER SUPPLIES

- Compact size
- Touch screen LCD to display UPS information circularly (optional)
- USB, RJ11 communication port (optional)
- Excellent microprocessor control guarantees high reliability
- Boost and buck AVR for voltage stabilization
- \bullet Auto restart while AC is recovering
- Simulated sine wave output
- Off-mode charging
- Cold start function
- Generator compatible (optional)







650 - 2000 VA TECHNICAL SPECIFICATIONS

	MODEL	LEO 650 LED	LEO 850 LED	LEO 1000 LED	LEO 1500 LED	LEO 2000 LED					
		LEO 650 LCD	LEO 850 LCD	LEO 1000 LCD	LEO 1500 LCD	LEO 2000 LCD					
	Capacity	650VA / 360W	850VA / 480W	1000VA / 600W	1500VA / 900W	2000VA / 1200W					
	INPUT										
	Voltage			110/120 VAC* or 220/230/24	O VAC						
	Voltage range			81 - 245 VAC* / 162 - 290 V	/AC						
	Frequency range			50Hz / 60Hz (auto sensin	g)						
	OUTPUT										
	Output voltage			110/120 VAC* or 220/230/24	D VAC						
AC voltage	regulation (batt. mode)		± 10%								
Freque	ency range (batt. mode)		50Hz / 60Hz ± 1Hz								
	Transfer time		Typical 2-6 ms								
	Waveform (batt. mode)			Simulated Sinewave							
	Output type	2*Schuko	2*Schuko 2*Schuko 4*Schuko 4*Schuko								
	BATTERY										
	Battery type & number	12V / 7Ah x 1	12V / 9Ah x 1	12V / 7Ah x 2	12V / 9	9Ah x 2					
	Typical recharge time		4-6 hours recover to 90% capacity								
	INDICATORS										
	LCD display		Input voltage, output	voltage, battery capacity, load	l level and UPS status						
	AC Mode			Green lighting							
LED display	Battery Mode		Green flashing	Yellow fla	shing						
	Fault		-		Red flas	hing					
	PROTECTION										
	Full protection		Overload	d, discharge and overcharge pr	otection						
	ALARM										
	Battery mode			Sounding every 10 seconds							
	Low battery			Sounding every seconds							
	Overload			Sounding every 0.5 seconds							
	Fault			Continuously sounding							
	PHYSICAL										
LCD display	Dimension (mm) HxWxD	142x1/	01x300		182x130x320						
	Net weight (kg)	4.4	5	8.2	10.4	10.6					
LED display	Dimension (mm) HxWxD	142x10	01x279		182x130x320						
LED display	Net weight (kg)	4.2	4.9	8.2	10.4	10.6					
	ENVIRONMENT										
	Communication types			LED model RS232, RJ11							
			LCD mode	l RS232, RJ11, USB Port+View	Power CD						
	Humidity		0 - 90	% RH @ 0°C - 40°C (non-conde	ensing)						
	Acoustic noise			< 40 dBA							
		* 110/120VAC system is only a	vailable for 650/850VA and produc	tion will be upon order.							

 $^{^{\}star}$ 110/120VAC system is only available for 650/850VA and production will be upon order.





TEOS 100 SERIES

UNINTERRUPTIBLE POWER SUPPLIES

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage
- Converter mode available
- ECO mode for energy saving (Only available for 1-3kVA models)
- Generator compatible

- Adjustable battery numbers only available for 6/10kVA models
- Adjustable charging current via LCD or software (1A~ 6A) only available for 6/10kVA models
- Emergency power off (EPO) function is only available for 6/10kVA models
- Comprehensive display allows easy monitoring and access to UPS status









1 - 10 kVA TECHNICAL SPECIFICATIONS

	MODEL	Teos 1000	Teos 2000	Teos 3000	Teos 106	Teos 110					
	Phase			Single phase with ground	d						
	Capacity	1000 VA / 900 W	2000 VA / 1800 W	3000 VA / 2700 W	6000 VA / 5400 W	10000 VA / 9000 W					
	INPUT										
	Nominal voltage	100/110/115/	100/110/115/120/127VAC veya 200/208/220/230/240VAC 208/220/230/240VAC 208/220/230/240VAC								
	Input voltage range	60-150VA	C or 120-300VAC (Based on lo	ad at 50%)	110-300 AC (Base	ed on load at 50%)					
		90-140VAC	or 180-280VAC (Based on lo	ad at 100%)	176-300VAC (Based on load at 100%)						
	Frequency range		40Hz ~ 70 Hz			or 56~64 Hz					
	Power factor		≥ 0.	99 @ Nominal Voltage (1009	% load)						
	OUTPUT										
	Voltage	100/110/115	/120/127VAC or 200/208/220	•	208/220/2	230/240VAC					
	Voltage tolerance		(F. FOLL FF. COLL	± 1%	(6.5/11	FC C/ !!					
	ange (Synchronized Range)		47~ 53 Hz or 57 ~ 63 Hz			or 56~64 Hz					
Freque	ency range (Batt. Mode) Crest factor		50 Hz or 60Hz ± 0.5%	3:1	50 HZ OF 60	0Hz ± 0.1 Hz					
	Voltage THD		≤ %3 THD (linear load)	3:1	~ 0/42 TUD	(linear lead)					
	Voltage 1110		\leq %3 THD (linear load) \leq %3 THD (linear load) \leq %5 THD (non-linear load) \leq %5 THD (non-linear load)								
Transfer	AC mode → batt. mode		_ ; 35 (tillear toda)	Zero	2 /03 11 ID (III						
Time	Inverter → bypass		4 ms		Z	ero					
	Waveform (Batt. mode)			Pure sinewave							
	EFFICIENCY										
	AC mode	88%	89%	90%	92%	93%					
	Battery mode	83%	85%	88%	90%	91%					
	BATTERY										
	Battery type		12V / 9AH		12V / 7AH	12V / 9AH					
Chandand	Number	2	4	6	1	16					
Standard model	Typical recharge time	L	hours recover to 90% capac	ity	9 hours recover	to 90% capacity					
	Charging current (max.)		1.0 A		1A/2A (A	djustable)					
	Charging voltage	27.4VDC ± 1%	54.7 VDC ± 1%	82.1 VDC ± 1%		DC ± 1%					
	Battery type	-				city of external batteries					
Long-run	Number		N/A			Adjustable)					
model	Charging current (max.)				1A/2A/4A/6A (Adjustable, 6A is only available for 16pcs batts						
	Charging voltage				273 VDC ±1% (Base	d on 20pcs batteries)					
	INDICATORS										
	LCD		Load level, Battery level, A	C mode, Battery mode, Byp.	ass mode, and Fault indicators						
	ALARM										
	Battery mode			Sounding every 4 seconds	S						
	Low battery			Sounding every second							
	Overload Fault			Sounding twice every seconomic Continuously sounding	nu						
	PHYSICAL			continuaty sounding							
Standard	Dimension, HxWxD (mm)	220x145x282	220x145x397	318x190x421	688x190x369	688x190x442					
model	Net weight (kg)	9.8	17	27.6	61	66					
Long-run	Dimension, HxWxD (mm)				318x190x369	318x190x442					
model	Net weight (kg)		N/A		12	16					
	ENVIRONMENT										
	Humidity	20%-	90 RH @ 0- 40°C (non-conde	nsing)	0%-95 RH @ 0-40°	°C (non-condensing)					
	Acoustic noise		< 50dBA @ 1m		< 55dBA @ 1m	< 58dBA @ 1m					
	MANAGEMENT										
	Smart RS-232/USB		Supports Windows 20	000/2003/XP/Vista/2008/7/8	, Linux, Unix, and MAC						
	Optional SNMP		Power manager	nent from SNMP manager a	nd web browser						





TEOS 100 XL SERIES

UNINTERRUPTIBLE POWER SUPPLIES

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.8
- Wide input voltage
- Converter mode available
- ECO mode for energy saving
 (Only available for 1-3kVA models)
- Generator compatible

- Adjustable battery numbers only available for 6/10kVA models
- Adjustable charging current via LCD or software
 (1A~ 6A) only available for 6/10kVA models
- Emergency power off (EPO) function is only available for 6/10kVA models
- Comprehensive display allows easy monitoring and access to UPS status









1 - 10 kVA TECHNICAL SPECIFICATIONS

	MODEL	Teos 1	000 XL	Teos 2000 XL	Teos 3	000 XL	Teos 106 XL	Teos 110 XL		
	Phase				Single phase	with ground				
	Power	1000VA	\ / 800W	2000VA / 1600W	3000VA	/ 2400W	6000VA / 5400W	10000VA / 9000W		
	INPUT									
	Nominal voltage			5/120/127VAC or 200/208/220/				230/240VAC		
	Input voltage range			C or 120-300 VAC (Based on lo C or 180-280 VAC (Based on lo	•		· ·	ed on load at 50%) ed on load at 100%)		
	Frequency range		30-140 VAC	40Hz ~ 70 Hz	au at 10070)		<u> </u>	or 56~64 Hz		
	Power factor			≥ 0.9	99 @ Nominal V	oltage (100%	load)			
	OUTPUT									
	Power factor			0,8			0,9			
	Voltage		100/110/11	5/120/127VAC or 200/208/220/	/23በ/2/:በ\/ልՐ		208/220/230/240VAC			
	Voltage regulation		100/110/11.	5/126/12/ VAC 61 200/200/220/	± 1	%	200/220/2	.30/240 VAC		
	Frequency range		47~ 53	Hz or 57 ~ 63 Hz (Synchronized			46~54 Hz or 56~64 Hz	z (Synchronized Range)		
	Frequency range) Hz or 60Hz ± 0.5% (Batt. Moo			50 Hz or 60Hz ± 0	0.1 Hz (Batt. Mode)		
	Crest factor			. ,	3:1 (r	nax.)		,		
	Voltage THD			≤ 3% THD (linear load)		•	≤ 3% THD (linear load)		
				≤ 6% THD (non-linear load)			≤ 5% THD (ne	on-linear load)		
Transfer	AC mod → Batt. mod				Ze	ro				
süresi	Inverter → bypass		4 ms Sıfır							
W	/aveform (batt. mode)		Pure Sinewave							
	EFFICIENCY									
	AC mode	88	10%	89%	90	%	92%	93%		
			83% 85% 88%			-	90%	91%		
	Battery mode BATTERY	63	170	6370	00	70	3070	3170		
					5	11				
	Battery type Numbers	2		4	Depending on the 6			diatabla)		
т.				4 hour recover to 90% capacit			16-20 (adjustable)			
- ''	ypical recgahrge time Charging current			1A/2A/4A/6A (adjustable)	.y		9 hour recover to 90% capacity 1A/2A/4A/6A (adjustable, only for 6A 16 pcs batt. configuration			
	Charging voltage	27.4VDC ± 1%	41.9VDC ± 1%	547VDC±1% 821VDC±1% 1094VDC±1%	82.1 VDC+1%	109.4 VDC ± 1%	-	0 battpowered configuration)		
	INDICATORS	27.4756 2 176	41.01202170	041 120_1/0 021120_1/0 1001120_1/0	0211002170	100.7 120_170		- 2010 porterou cogu. 00		
	LCD			Landlevel Dettermine A	Cd. D.	da Da	dd Fl+ in-di+			
				Load level, Battery level, A	c mode, Battery	/ тоае, вура	ss mode, and Fault indicators			
	ALARM				C !:	, ,				
	Battery mode				Sounding eve	•				
	Low battery Overload				Sounding ex		4			
	Fault				Continously	-	4			
	PHYSICAL				0011011100001	,				
Din	mension HxWxD (mm)	220x14	5x282	220x1.	45x397		318x190x369	318x190x442		
	Net weight (kg)	4.		6.8	7.	<u></u>	12	16		
	ENVIRONMENT		••	0.0	,,	-	12	10		
	Humidity		20_0	0% RH @ 0- 40°C (non-conder	ncina)		0_05% PH @ 0_40°	°C (non-condensing)		
	Acoustic noise		20-9	< 50dBA @ 1 meter	1311 lg <i>)</i>		< 55dBA @ 1 meter	< 58dBA @ 1 meter		
				- Jouda & I Illetel			- SSUDA & THERE	→ JOUDA © THIELEI		
	MANAGEMENT				00/005= 5					
	Smart RS-232/USB			Supports Windows 20						
	Optional SNMP			Power managen	ient irom SNMI	r manager and	u web browser			





TEOS RT SERIES

UNINTERRUPTIBLE POWER SUPPLIES

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage range
- Converter mode available
- · Generator compatible

- ECO mode for energy saving (Only available for 1-3kVA models)
- Adjustable charging current via LCD or software (1A/2A)
- Emergency power off (EPO) function is only available for 6/10kVA models
- Comprehensive display allows easy monitoring and access of UPS status















1 - 10 kVA TECHNICAL SPECIFICATIONS

	MODEL	Teos 1RT	Teos 2RT	Teos 3RT	Teos 1	06RT	Teos 1	10RT		
	Phase			Single phase with groun	nd					
	Capacity	1000 VA / 900 W	2000 VA / 1800 W	3000 VA / 2700 W	6000 VA	/ 5400 W	10000 VA	/ 9000 W		
	INPUT									
	Nominal voltage	110/115	5/120/127VAC or 208/220/230	/240VAC	208/220/230/240VAC					
	Input voltage range	60-14	5 VAC or 120-300 VAC at 50 ^o	% load	110-300 VAC (Based on load at 50%)					
		90-14	5 VAC or 180-300 VAC at 100	% load	176-300 VAC (Based on load at 100%)					
	Frequency range		40Hz ~ 70 Hz			46Hz ~ 54 Hz	or 56Hz ~ 64Hz	<u> </u>		
	Power factor		≥ 0.9	99 @ Nominal Voltage (100	% load)					
	OUTPUT									
	Output voltage	110/115	5/120/127VAC or 208/220/230	/240VAC		208/220/2	230/240VAC			
	Voltage regulation			± 1%						
	range (synchronized range)		47~ 53Hz or 57 ~ 63Hz				or 56Hz ~ 64Hz			
Frequenc	ry range (battery mode)	!	50Hz ± 0.25Hz or 60Hz ± 0.3H	Z		50Hz ± 0.1Hz	or 60Hz ± 0.1H:	Z		
	Current crest ratio			3:1						
	Harmonic distortion	≤ 3 % THD (Linear Load), ≤ 6 % THD (Non	-linear Load)	≤ 3 % THD	(Linear Load),	≤ 5 % THD (Non	-linear Load)		
Transfer	AC Mode to batt. mode		Zero			0	ms			
Time	Inverter to bypass		4 ms (Typical)			0	ms			
	Waveform (Batt. mode)		Pure Sinewave							
	EFFICIENCY									
	AC mode	88%	89%	90%	92	2%	93	3%		
	Battery mode	83%	87%	88%	90)%	91	1%		
	BATTERY									
	Battery type			12V / 9AH			ı			
	Numbers	2	4	6	16	20	16	20		
	Typical recharge time	4	hours recover to 90% capaci	ty	g		to 90% capaci	ty		
	Charging current (max.)		1.0A				djustable)			
	Charging voltage	27.4VDC ± 1%	54.7VDC ± 1%	82.1VDC ± 1%	218.4VDC ± 1%	273VDC ± 1%	218.4 VDC ± 1%	273VDC ± 1%		
	INDICATORS									
	LCD panel		Load level, Battery level, A	C mode, Battery mode, Byp	ass mode, and Fa	ult indicators				
	ALARM									
	Battery mode			Sounding every 4 second						
	Low battery			Sounding every second						
	Overload			Sounding twice every seco	ond					
	Fault			Continously sounding						
	PHYSICAL			I			I			
	Dimension, HxWxD (mm)				UPS Unit:	UPS Unit:	UPS Unit:	UPS Unit:		
		88x438x310	88x438x410	88x438x630				[3U]133x438x580		
					Battery Pack:	Battery Pack:	Battery Pack:	Battery Pack: [3U]133x438x580		
	Net Weight (kg)	12	19	29.3	UPS Unit: 15	UPS Unit: 15	UPS Unit: 18	UPS Unit: 18		
					Batt. Pack: 48	Batt. Pack: 61	Batt. Pack: 51	Batt. Pack: 61		
	ENVIRONMENT									
	Humidity	20-90	0 % RH @ 0- 40°C (non-conde	nsing)			0°C (non-conde			
	Noise level		Less than 50dBA @ 1m		Less than 5	5dBA @ 1m	Less than 5	8dBA @ 1m		
	MANAGEMENT					_				
	Smart RS-232/USB			2000/2003/XP/Vista/2008/7/8,		С				
	Optional SNMP		Power manage	ement from SNMP manager ar	nd web browser					





TEOS 200 SERIES

UNINTERRUPTIBLE POWER SUPPLIES

- True double-conversion
- Output power factor 0.8
- Wide input voltage range
- 50Hz frequency converter mode
- Emergency power off function (EPO)
- Generator compatible
- SNMP+USB+RS-232 multiple communications
- 3-stage extendable charging design for optimized battery performance
- Optional maintenance bypass switch







10 - 20 kVA TECHNICAL SPECIFICATIONS

	MODEL	Teos	210	Teos	s 215	Teos	220			
	Phase			3 phase in /	1 phase out					
	Capacity	10000VA /	′ 8000W	15000VA	/ 12000W	20000VA	/16000 W			
	INPUT									
	Nominal voltage		3x400VAC (3Ph+N)							
	Input voltage range			190-520VAC (3-P	hase) @ 50% load					
				305-520VAC (3-Ph	nase) @ 100% load					
	Frequency range			46Hz	~ 54Hz					
	OUTPUT									
	Output voltage		208/220/230/240VAC							
,	AC Voltage regulation			± 1% (ba	tt. mode)					
	Frequency range			46 ~ 54Hz (synd	chronized range)					
	Frequency range			50Hz ± 0.1Hz	z (batt. mode)					
	Current crest ratio			3:1 (max)					
	Harmonic distortion		≤ .	3 % THD (Linear Load) ≤	5 % THD (Non-linear Lo	ad)				
Transfer	AC Mode to batt. mode			Ze	ero					
Time	Inverter to bypass			Ze	ero					
V	Vaveform (Batt. mode)			Pure Si	newave					
	EFFICIENCY									
	AC mode			91	1%					
	Battery mode		91%							
	BATTERY									
	Battery type									
	Numbers	16 pcs	20 pcs	16 pcs	20 pcs	16 pcs x 2 strings	20 pcs x 2 strings			
Standard Model	Typical recharge time			9 hours recover	to 90% capacity					
Modet	Charging current (max.)		1A ± 10%				% (2A default))			
	Charging voltage	218.4 VDC ± 1%	273 VDC ±1%	218.4 VDC ±1%	273 VDC ±1%	218.4 ±1%	273 ±1%			
	Battery type			Depending on the capac	city of external batteries					
Long-run	Numbers	16 pcs	20 pcs	16 pcs	20 pcs	16 pcs	20 pcs			
Model	Charging current (max.)			4A Default, 1A/2	A/4A (Adjustable)					
	Charging voltage	218.4 VDC ± 1%	273 VDC ±1%	218.4 VDC ±1%	273 VDC ±1%	218.4 ±1%	273 ±1%			
	INDICATORS									
	LCD panel		UPS status, Load level,	Battery level, Input/Out	put voltage, Discharge ti	mer, and Fault conditions				
	ALARM									
	Battery mode				ery 4 seconds					
	Low battery			Sounding e	every second					
	Overload			Sounding twice	ce every second					
	Fault			Continous	ly sounding					
	PHYSICAL									
Standard	Dimension HxWxD (mm)		688x1	90x422		826x25	50x815			
Model	Net Weight (kg)	66	76	67	78	125	145			
Long-run	Dimension HxWxD (mm)		318x1	90x442		318x19	00x575			
Model	Net Weight (kg)	1	5	1	16	18.	95			
	ENVIRONMENT									
	Operating humidity			0-95% RH @ 0-50°	°C (non-condensing)					
	Acoustic noise			< 60dBA	@ 1 Meter					
	MANAGEMENT									
	Smart RS-232/USB		Supports	Windows® 2000/2003/XF	P/Vista/2008, 7/8, Linux a	and MAC				
	Optional SNMP		Powe	r management from SNM	IP manager and web brov	vser				





TEOS 300 SERIES

UNINTERRUPTIBLE POWER SUPPLIES

- DSP technology guarantees high performance
- Output power factor 1.0
- Active power factor correction in all phases
- Dual Inputs
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving
- Emergency power off function (EPO)

- Adjustable charging current
- Very powerful charger
- Optional parallel operation with common battery
- High overload capability
- Adjustable battery design
- Optional 4.3" touch LCD













10 - 80 kVA TECHNICAL SPECIFICATIONS

	MODEL	Teos 310	Teos 320	Teos 330	Teos 340	Teos 360	Teos 380
	Phase			3 phase in /	/ 3 phase out		
	Capacity	10kVA / 10kW	20kVA / 20kW	30kVA / 30kW	40kVA / 40kW	60kVA / 60kW	80kVA / 80kW
	Parallel capability			up to 3 unit	s in parallel		
	INPUT						
	Nominal voltage			3 x 400VA	.C (3Ph+N)		
	Input voltage range			190-520VAC (3-P	hase) @ 50% load		
				305-478VAC (3-Ph	nase) @ 100% load		
	Frequency range			46~54 Hz (or 56~64Hz		
	Power factor			≥ 0.99 @	100% load		
	OUTPUT						
	Output voltage			3 x 360*/380/400/	/415 VAC (3Ph+N)		
1	AC Voltage regulation			± 1% (ba			
	Frequency range				(synchronized range)		
	Frequency range			50Hz ± 0.1Hz or 60Hz	z ± 0.1Hz (batt. mode)		
	Current crest ratio			3:1 (•		
	Harmonic distortion		≤ 2	2 % THD (Linear Load) ≤	5 % THD (Non-linear Loa	nd)	
Transfer					ero		
Time	liverter to bypass				ero		
W	Vaveform (Batt. mode)				newave		
Overload	AC mode			·	6 for 10 min, >150% imme	•	
	Battery mode		100-11	0% for 60 min, 110-125%	6 for 10 min, >150% imme	diately	
	EFFICIENCY			05	F0/		
	AC mode				5%		
	Eco mode				5%		
	Battery mode			94.	5%		
	BATTERY			Danandina an t	ha annications		
	Battery type Numbers	20 pcs		Depending on t	32~40 pcs (Adjustable)		
Long-run Model		ZU pcs	1'	 2A	32~40 pcs (Aujustable)		24A
Mouet	Charging current (max.)	± 136.5 VDC ± 10%	11	ZA	± 13.65V x N (N=16~20)	2	-4A
	INDICATORS	± 130.3 VDC ± 1070			± 13.03V X N (N=10~20)		
	LCD panel		LIPS status. Load level	Rattery level Innut/Out	put voltage, Discharge tir	ner and Fault condition	s
	PHYSICAL		or 5 status, Loud tevet,	Battery tevet, input/out	pat vottage, bischarge til	nei, and i date condition	<u> </u>
	Dimension HxWxD (mm)	750x25	50v626	1000v3	300x815	1010v	360x790
Long-run Model	Net Weight (kg)	28	43	60	61	108	113
	ENVIRONMENT	20	45	00	01	100	113
0	Operating temperature			0-4	40°C		
	Operating humidity						
	Acoustic noise	< 55dB @ 1 Meter	< 58dB @ 1 Meter	< 65dB @ 1 Meter		0 1 Meter	< 75dB @ 1 Meter
	MANAGEMENT	2 111230	2	1 2 11122	1 1 1 1 1		
	Smart RS-232/USB		Supports	Windows® 2000/2003/XF	P/Vista/2008, 7/8, Linux a	nd MAC	
	Optional SNMP		<u>''</u>		IP manager and web brow		
			. 5110				

*If output voltage is set as 3 x 360VAC, the output power of the unit will be de-rated to 90%.





10 - 20 kVA

DS POWER SH SERIES

UNINTERRUPTIBLE POWER SUPPLIES

IGBT RECTIFIER DSP CONTROL

The new Tescom DS Power SH Series UPS appears as a cost effective and smaller footprint UPS. Using the 3 level inverter topology and control system, this series UPS have the latest DSP technology to be programmed to suit a wide variety of electrical environments without impending its performance. Efficiency, reliability and functionality are enhanced to levels unattainable with the old analogue technology. This technology does not only create significant increase in MTBF, but the capability of DSP to accurately manipulate signals at very high speed permits all the UPS subsystems to be controlled with greatly increased precision.

- Smaller footprint
- 3 Level topology
- Transformerless UPS topology
- Low input current total harmonic distortion (THD)
- High input power factor
- High efficiency up to 94%
- Cold start function
- Static and maintenance by-pass switch

- Output short circuit and overload protection
- External REPO switch input
- 192 events memory (192 events 14.400 alarms)
- Clock and calender (battery supported)
- Automatic battery test ,remaining battery time indicator
- Temperature compensated charge system (optional)
- 1 RS232 serial port and 3 dry contact outputs (+2 optional)
- 3 DSP controlled modular structure
- Optional SNMP and MODBUS adaptors
- Fulldigital structure
- Fewer electronic components
- Output current limiting
- Advanced diagnostics for the input
- Selectable input/output voltage/frequency range
- Output DC leakage protection
- \bullet Separate DSP for PFC 3 level battery protection
- Charge / discharge current indicator
- Advanced remote control features
- Manufactured under CE,ISO9001,ISO14001,TSE and GOST international standards
- 2 years warranty

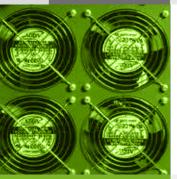




10 - 20 kVA TECHNICAL SPECIFICATIONS

No. 1997 100 15 20 20 20 20 20 20 20 2	MODEL	DS310SH	DS310SH DS315SH DS320SH						
Nicut									
Voltage 380/400 VAC 3P + N - G = 20% (475Mc - 15% c, -25% optional)		10	13						
Power factor (at 10% load)		390//	.00 VAC 2D + N + C + 20% (//15VAC + 15% 25% on	tional					
Nower factor (ct 100% load) S 0.99 S 24 % (depends on mains injure conditions) S 24 % (depends on mains injure conditions) S 25 % S 25 % S 26 % S		360/4	<u> </u>	Liuraty					
THD (or 100% load)			· · · · · · · · · · · · · · · · · · ·						
Voltage Sistartion									
Protection									
Prosection Pusses, Voltage & Frequency Tolerance									
Power (AV) 9 13,5 16			·						
Power (NV) Power factor O,9 (1 optional) O,9 (1 optional) O,9 (0,8 and 1 optional)			ruses, voltage a rrequerity roterance						
Power factor		g	13 5	18					
Yoltage			·						
Frequency total article Frequency (at 100% load) 94%		0,5 (1 optional)		Торионасу					
Efficiency tolerance Line synchronized: ± 2% / Free running: ± 0,1%			· · · · · · · · · · · · · · · · · · ·						
Crest factor Overload protection 100% - 125% loads 10 min, 125% - 150% loads 1 min, - > 150% loads by pass Protection Fuses, Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting Voltage THD ATTERIES VRLA AGM / GEL / NICd Number of batteries Float charging voltage End of discharge voltage End of discharge voltage End of discharge voltage Battery cabinet Battery arabient temperature Battery protection Automatic battery test GENERAL Standards User interface Indicators Advanced Self diagnostics, 3 maintenance time indicators, Calibration over RS232, operating hour meter Advanced Communication RS232 serial port, 4 standard DRY contact alarm relays Flore, and and support of the Communication Power module over temperature Protection Power module over temperature Protection Power module over temperature Alam logging Standard T-Mon UPS Management Software G clients + 1 server management) Alam logging Standard T-Mon UPS Management Software G clients + 1 server management) Alam logging Standard - 100 max (non-condensing) Altitude Acoustic noise Acoustic noi			·						
Overload protection Pr			<u> </u>						
Deverload protection	* * * * * * * * * * * * * * * * * * * *								
Protection Voltage THD Voltage THO Voltage THO September 1 Voltage THO Septice The Voltage Thou Thou Thou Thou Thou Thou Thou Thou		100% - 125%		load: by nass					
Number of batteries			··						
Type VRLA AGM / GEL / NICd Number of batteries Float charging voltage		,		- · · · · · · · · · · · · · · · · · · ·					
Number of batteries Float charging voltage End of discharge voltage Battery cabinet Battery cabinet Battery protection Battery protection Automatic battery test GENERAL Standards User interface Advanced Self diagnostics, 3 maintenance time indicators, Calibration over RS232 operating hour meter Communication RS232 serial port, 4 standard DRy Contact alarm relays Floput Genset kit Standard T-Mon UPS Management Software (3 clients + 1 server management) Alam logging Protection Power module over temperature, Over current, Temperature high alarms Operating temperature Acoustic noise RS33 Sa BA Altitude Acoustic noise Altitude Acoustic moise Altitude Altitude Acoustic moise Altitude Altitude Altitude Acoustic moise Altitude Altitud									
Number of batteries 60 (± 30) batteries Float charging voltage ± 405 VDC (adjustable)			VRLA AGM / GEL / NiCd						
### Float charging voltage End of discharge voltage Battery cabinet Battery arbinet Battery arbinet temperature Battery parbinet temperature compensation (optional) Automatic battery test Battery parbinet temperature compensation (optional) Battery parbinet temperature compensation (optional) Battery parbinet temperature temperature temperature (between 2 parbinet 23 parbinet 23 parbinet 24 parbinet 24 parbinet 24 parbinet 24 parbinet 25 parbinet 24 parbinet 25 parb	**		60 (± 30) batteries						
Battery cabinet Battery cabinet Battery ambient temperature Battery protection Battery protection Battery protection Automatic battery test Battery ambient temperature Battery protection Automatic battery test Battery protection Standard: every 72 hours (adjustable) Battery protection Standards EN62040-1, EN62040-3 User interface Battery protection Advanced Self diagnostics, 3 maintenance time indicators, Calibration over RS232, operating hour meter Communication RS232 serial port, 4 standard DRY contact alarm relays Inputs Genset kit Standard T-Mon UPS Management Software (3 clients + 1 server management) Alarm logging Protection Power module over temperature, Over current, Temperature high alarms Operating temperature Protection degree Protection degree Relative humidity 90% max. (non-condensing) Altitude Acoustic noise 455 dBA 47.5 49.5 51 Dimensions (mm) HXWXD 700x300x770 (without batt.) / 1000x300x800 (with 5ah batt.) / 1170x300x800 (with 7-9ah batt.) OPTIONS	Float charging voltage								
Battery cabinet Battery ambient temperature Battery protection Battery protection Automatic battery test Standard: every 72 hours (adjustable) Standards Standards ENSE2040-1, ENSE2040-2, ENSE2040-3 User interface Indicators Indicators Advanced Self diagnostics, 3 maintenance time indicators, Calibration over RS232 serial port, 4 standard (programmable) Genset kit Genset kit Genset kit Genset kit Fretction Power module over temperature, Over current, Temperature high alarms Operating temperature Protection degree Relative humidity Acoustic noise Acoustic noise Acoustic noise Acoustic noise FO Dimensions (mm) HxWxD FTIONS Battery protection Stendard (puscanous and the bottom of UPS) Standard (programma time), Temperature compensation (optional) Standard every 72 hours (adjustable) ENSE2040-1, ENSE2040-3 Standard except power, Crest Factor, Frequency, PF, Service Time A diamonal part of P-N voltage, P-P voltage, Current, Power, Crest Factor, Frequency, PF, Service Time Self diagnostics, 3 maintenance time indicators, Calibration over RS223, operating hour meter Self diagnostics, 3 maintenance time indicators, Calibration over RS223, operating hour meter BPO input Standard (programmable) Standard (programmable) Standard (programmable) Standard (programmable) Standard: with time & date 512 events Protection Power module over temperature, Over current, Temperature high alarms Operating temperature O°C - 40°C Protection degree Relative humidity 47.5 49.5 49.5 51 Dimensions (mm) HxWxD 700x300x770 (without batt.) / 1000x300x800 (with 5ah batt.) / 1170x300x800 (with 7-9ah batt.)			·						
Battery protection Automatic battery test Standard: every 72 hours (adjustable) ENEZO40-1, ENEZO40-2, ENEZO40-3 User interface Indicators Advanced Self diagnostics, 3 maintenance time indicators, Calibration over RS232, operating hour meter Communication RS232 serial port, 4 standard DRY contact alarm relays Inputs Genset kit Standard T-Mon UPS Management Software (3 clients + 1 server management) Alarm logging Protection Power module over temperature, Over current, Temperature high alarms Operating temperature Protection degree Relative humidity Acoustic noise Acoustic noise Acoustic noise Acoustic noise Acoustic noise Defaults Acoustic noise Acoustic noise Acoustic noise Acoustic noise Acoustic Note Temperature Acoustic noise Ac			-						
Automatic battery test GENERAL Standards Standards EN62040-1, EN62040-2, EN62040-3 User interface A tines LCD panel, Mimic leds, 5 vector buttons, buzzer Indicators P-N voltage, P-P voltage, Current, Power, Crest Factor, Frequency, PF, Service Time Advanced Self diagnostics, 3 maintenance time indicators, Calibration over RS232, operating hour meter Communication RS232 serial port, 4 standard DRY contact alarm relays Inputs Genset kit Standard (programmable) Software Standard T-Mon UPS Management Software (3 clients + 1 server management) Alarm logging Standard: with time & date 512 events Protection Power module over temperature, Over current, Temperature high alarms Operating temperature OPC - 40°C Protection degree Relative humidity 90% max. (non-condensing) Altitude Acoustic noise < 55 dBA Veight (kg) 47.5 49.5 51 Dimensions (mm) HXWXD OPTIONS	Battery ambient temperature		25°C						
Standards User interface Indicators P-N voltage, P-P voltage, Current, Power, Crest Factor, Frequency, PF, Service Time Advanced Self diagnostics, 3 maintenance time indicators, Calibration over RS232, operating hour meter Communication RS232 serial port, 4 standard DRY contact alarm relays Inputs Genset kit Standard (programmable) Software Standard T-Mon UPS Management Software (3 clients + 1 server management) Alarm logging Standard: with time & date 512 events Protection Power module over temperature, Over current, Temperature high alarms Operating temperature Protection degree Relative humidity Acustic noise OPTIONS POOX300X770 (without batt.) / 1000x300x800 (with 5ah batt.) / 1170x300x800 (with 7-9ah batt.) OPTIONS	Battery protection	3 level alarms, Battı	ery fuses, Charging current limit, Temperature com	pensation (optional)					
Standards User interface User interface A lines LCD panel, Mimic leds, 5 vector buttons, buzzer P-N voltage, P-P voltage, Current, Power, Crest Factor, Frequency, PF, Service Time Advanced Self diagnostics, 3 maintenance time indicators, Calibration over RS232, operating hour meter Communication RS232 serial port, 4 standard DRY contact alarm relays EPO input Genset kit Standard (programmable) Software Standard T-Mon UPS Management Software (3 clients + 1 server management) Alarm logging Protection Power module over temperature, Over current, Temperature high alarms Operating temperature Protection degree Relative humidity Altitude Acoustic noise Altitude Acoustic noise Acoustic noise Acoustic noise Affection OPTIONS FIGURE 1, ENG2040-3 ### A lines LCD panel, Mimic leds, 5 vector buttons, buzzer ### A lines LCD panel, Mimic leds, 5 vector buttons, buzzer ### A lines LCD panel, Mimic leds, 5 vector buttons, buzzer ### EPO input ### EPO input Standard T-Mon UPS Management Software (3 clients + 1 server management) ### Standard (programmable)	Automatic battery test		Standard: every 72 hours (adjustable)						
User interface 4 lines LCD panel, Mimic leds, 5 vector buttons, buzzr	GENERAL								
Indicators	Standards		EN62040-1, EN62040-2, EN62040-3						
Advanced Self diagnostics, 3 maintenance time indicators, Calibration over RS232, operating hour meter Communication RS232 serial port, 4 standard DRY contact alarm relays Inputs EPO input Genset kit Standard (programmable) Software Standard T-Mon UPS Management Software (3 clients + 1 server management) Alarm logging Standard: with time & date 512 events Protection Power module over temperature, Over current, Temperature high alarms Operating temperature O°C - 40°C Protection degree IP20 Relative humidity 90% max. (non-condensing) Altitude < 1000m. above sea level Acoustic noise < 55 dBA < 57 dBA Weight (kg) 47.5 49.5 49.5 51 Dimensions (mm) HXWXD 700x300x770 (without batt.) / 1000x300x800 (with 5ah batt.) / 1170x300x800 (with 7-9ah batt.)	User interface	4	lines LCD panel, Mimic leds, 5 vector buttons, buzz	rer					
Communication RS232 serial port, 4 standard DRY contact alarm relays Inputs EPO input Genset kit Standard (programmable) Software Standard T-Mon UPS Management Software (3 clients + 1 server management) Alarm logging Standard: with time & date 512 events Protection Power module over temperature, Over current, Temperature high alarms Operating temperature O°C - 40°C Protection degree IP20 Relative humidity 90% max. (non-condensing) Altitude < 1000m. above sea level	Indicators	P-N voltage, P-F	P voltage, Current, Power, Crest Factor, Frequency,	PF, Service Time					
Inputs EPO input	Advanced	Self diagnostics, 3 ma	aintenance time indicators, Calibration over RS232	operating hour meter					
Genset kit Software Software Standard T-Mon UPS Management Software (3 clients + 1 server management) Standard: with time & date 512 events Protection Power module over temperature, Over current, Temperature high alarms Operating temperature Protection degree Relative humidity Relative humidity Acoustic noise Acoustic noise Acoustic noise Acoustic noise Acoustic noise OPTIONS Standard: with time & date 512 events Power module over temperature, Over current, Temperature high alarms O°C - 40°C IP20 80% max. (non-condensing) < 1000m. above sea level < 55 dBA 47.5 49.5 51 Dimensions (mm) HXWXD 700x300x770 (without batt.) / 1000x300x800 (with 5ah batt.) / 1170x300x800 (with 7-9ah batt.) OPTIONS	Communication	RS	232 serial port, 4 standard DRY contact alarm rel	ays					
Software Standard T-Mon UPS Management Software (3 clients + 1 server management) Alarm logging Standard: with time & date 512 events Protection Power module over temperature, Over current, Temperature high alarms Operating temperature 0°C - 40°C Protection degree IP20 Relative humidity 90% max. (non-condensing) Altitude < 1000m. above sea level Acoustic noise < 55 dBA < 57 dBA Weight (kg) 47.5 49.5 51 Dimensions (mm) HXWXD 700x300x770 (without batt.) / 1000x300x800 (with 5ah batt.) / 1170x300x800 (with 7-9ah batt.)	Inputs		EPO input						
Alarm logging Protection Power module over temperature, Over current, Temperature high alarms Operating temperature Protection degree Relative humidity Altitude Acoustic noise Acoustic noise Veight (kg) Dimensions (mm) HxWxD OPTIONS Standard: with time & date 512 events Power module over temperature, Over current, Temperature high alarms 0°C - 40°C IP20 90% max. (non-condensing) 40% max. (non-condensing) 41000m. above sea level 457 dBA 49.5 51 700x300x770 (without batt.) / 1000x300x800 (with 5ah batt.) / 1170x300x800 (with 7-9ah batt.)									
Protection Power module over temperature, Over current, Temperature high alarms Operating temperature 0°C - 40°C Protection degree IP20 Relative humidity 90% max. (non-condensing) Altitude < 1000m. above sea level Acoustic noise < 55 dBA < 57 dBA Weight (kg) 47.5 49.5 51 Dimensions (mm) HxWxD 700x300x770 (without batt.) / 1000x300x800 (with 5ah batt.) /1170x300x800 (with 7-9ah batt.) OPTIONS	Software	Standard T-Mo	-	management)					
Operating temperature 0°C - 40°C Protection degree IP20 Relative humidity 90% max. (non-condensing) Altitude < 1000m. above sea level Acoustic noise < 55 dBA < 57 dBA Weight (kg) 47.5 49.5 51 Dimensions (mm) HxWxD 700x300x770 (without batt.) / 1000x300x800 (with 5ah batt.) / 1170x300x800 (with 7-9ah batt.) OPTIONS	Alarm logging								
Protection degree IP20 Relative humidity 90% max. (non-condensing) Altitude < 1000m. above sea level		Power mod	· · · · · · · · · · · · · · · · · · ·	nigh alarms					
Relative humidity 90% max. (non-condensing) Altitude < 1000m. above sea level Acoustic noise < 55 dBA < 57 dBA Weight (kg) 47.5 49.5 51 Dimensions (mm) HxWxD 700x300x770 (without batt.) / 1000x300x800 (with 5ah batt.) / 1170x300x800 (with 7-9ah batt.) OPTIONS									
Altitude < 1000m. above sea level Acoustic noise < 55 dBA < 57 dBA Weight (kg) 47.5 49.5 51 Dimensions (mm) HxWxD 700x300x770 (without batt.) / 1000x300x800 (with 5ah batt.) / 1170x300x800 (with 7-9ah batt.) OPTIONS OPTIONS 49.5 51									
Acoustic noise < 55 dBA < 57 dBA Weight (kg) 47.5 49.5 51 Dimensions (mm) HxWxD 700x300x770 (without batt.) / 1000x300x800 (with 5ah batt.) / 1170x300x800 (with 7-9ah batt.) OPTIONS OPTIONS	<u> </u>								
Weight (kg) 47.5 49.5 51 Dimensions (mm) HxWxD 700x300x770 (without batt.) / 1000x300x800 (with 5ah batt.) / 1170x300x800 (with 7-9ah batt.) OPTIONS									
Dimensions (mm) HxWxD 700x300x770 (without batt.) / 1000x300x800 (with 5ah batt.) /1170x300x800 (with 7-9ah batt.) OPTIONS									
OPTIONS									
		700x300x770 (without	: batt.) / 1000x300x800 (with 5ah batt.) /1170x300x	8UU (with 7-9ah batt.)					
Different input / output voltage Please ask									
Adaptors SNMP, MODBUS, RS485, Remote panel T Man Admin Multi-UDS manifesting 10, 500 plicate. T Man Samer 50, 100, 200 plicate.		+ A A 1 + A 2 1-1		au E0 100 200 aliants					
Software T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 50-100-200 clients	Software	I-MON Admin Multi U	or 3 monitoring 10-50-100-200 clients, 1-Mon Serv	ei 50-100-200 Cliefils					





10 - 100 kVA

DS POWER H SERIES

UNINTERRUPTIBLE POWER SUPPLIES

3 LEVEL TECHNOLOGY IGBT RECTIFIER DSP CONTROL

The new DS Power range UPS uses the latest DSP technology to be programmed to suit a wide variety of electrical environments without impending its performance. With the DS Power range, efficiency, reliability and functionality are enhanced to levels unattainable with the old analogue technology. This technology does not only create significant increase in MTBF, but the capability of DSP to accurately manipulate signals at very high speed permits all the UPS subsystems to be controlled with greatly increased precision.

- Transformerless UPS topology
- 3 Level topology
- High input power factor
- High efficiency up to 95%
- Cold start function
- Static and maintenance by-pass switch
- Output short circuit and overload protection
- External REPO switch input
- 512 events memory (512 events 45000 alarms)
- Clock and calender (battery supported)

- Automatic battery test, remaining battery time indicator
- Temperature compansated charge system (optional)
- 2 RS232 serial ports and 12 dry contact outputs
- 3 DSP controlled modular structure
- Optional SNMP and MODBUS adaptors
- Optional graphical panel
- Optional usb flash memory
- Full digital structure
- Small footprint
- Ecomode operation (optional)
- Fewer electronic components
- Output current limiting
- Advanced diagnostics for the input
- Selectable input/output voltage/frequency/range
- Split by-pass input (second input)
- Output DC leakage protection
- Separate DSP for inverter control
- Separate DSP for the PFC
- 3 level battery protection
- High charge current capacity
- Charge/discharge current indicator
- Advanced remote control
- Manufactured according to EC Directive; EN62040
- 2 years warranty







10 - 100 kVA

TECHNICAL SPECIFICATIONS

MODEL	DS310H	DS315H	DS320H	DS330H	DS340H	DS360H	DS380H	DS3100H			
Power (kVA)	10	15	20	30	40	60	80	100			
INPUT					•						
Voltage		$380/400 \text{ VAC } 3P + N + G \pm 20\% \text{ (at } 100\% \text{ load)} / - 40\% \text{ (at } 70\% \text{ load)}$									
Frequency		50Hz / 60Hz, ± 5%									
Power factor		≥ 0.99 (at 100% load)									
(THDI) (*)		≤ 3%									
By-pass voltage		380/400 VAC 3 Phase + N, ± 10%									
Voltage distortion					0%						
Protection		Fus	es, Voltage & Frequ	uency tolerance, In	put power limit, Ph	ase sequency indi	icator				
OUTPUT			T		T.	I					
Power (kW)	9	13,5	18	27	36	54	72	90			
Power factor					,8 and 1 optional)						
Voltage			380/	/400 VAC 3P + N, ±	-	nal)					
Frequency				-	/ 60Hz						
Frequency tolerance			Line synchi	ronized: ± 2% (adju		ing: ± 0,1%					
Efficiency				· · · · · · · · · · · · · · · · · · ·	95%						
Crest factor			200/ 1050/ 1		:1	4500/1 11					
Overload protection				10 min, 125% - 15							
Other protections		Advanc	ed short circuit, Vo	ltage tolerance, DO		ative load, Curren	t limiting				
Voltage THD				≤ 3% (at 100	% linear load)						
BATTERIES											
Type					/ GEL / NiCd						
Number of batteries				2x30 (±30)	•						
Charge voltage					5 VDC 0 VDC						
End of discharge voltage Battery cabinet					ernal						
Battery ambient temperature					5°C						
Protections		3 level :	Jarme Rattery fue	es, Charging currer		re compensation ((ontional)				
Automatic testing		J tevet o		Standard every 72		·	(орсіонас)				
GENERAL				Standard every 72	Tiodis (adjustable)	<u> </u>					
Standards				FN62040-1, FN62	040-2, EN62040-3						
User interface			4 lines LCD panel.	Mimic leds, 5 vecto	•	Optional TFT pane	el				
Indicators			<u>.</u>	ge, Current, Power,		· · · · · · · · · · · · · · · · · · ·					
Advanced				ance time indicator		· · ·					
Communication			2xRS232 serial po	rts, 4 standard and	d 8 optional DRY co	ntact alarm relays	S				
Inputs			EPO inpu	it, Interactive batte	ery panel input, Ger	nset input					
Genset kit				Standard (pr	ogrammable)						
Software		St	andard T-Mon UPS	Management Soft	ware (3 clients + 1	server manageme	ent)				
Alarm logging				Standard:with time	e & date 512 events	5					
Protections			Power module ov	ver-temperature, 0	vercurrent, Tempe	rature high alarm					
Temperature range				0°C -	40°C						
Protection degree				IP	20						
Relative humidity				90% max. (no	n-condensing)						
Altitude				< 1000m abo	ove sea level						
Acoustic noise		< 57dBA < 62dBA < 65dBA									
Weight without batteries (kg)	87	87	91	100	173	197	209	220			
Dimensions (mm) HxWxD		1040x4	00x815			1440x	515x855				
OPTIONS											
Different input / output voltage				Pleas	se ask						
Transformer				lation transformer							
Software		T-Mon A	dmin Multi UPS mo	onitoring 10-50-100	0-200 clients, T-Mo	n Server 50-100-2	200 clients				
Adaptors	SNMP, RS485	, Remote monitor	ing panel, MODBUS	S (RS485 or TCP/IP)), USB Alarm Logge	er, TCP/IP, GSM/GP	PRS Modem, Compo	ort multiplexer			
Parallel operation				Up to	8 units						





DS POWER H SERIES

UNINTERRUPTIBLE POWER SUPPLIES

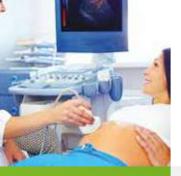
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- Transformerless UPS topology
- 3 Level topology
- High input power factor
- High efficiency up to 95%
- Cold start function
- Static and maintenance by-pass switch
- Output short circuit and overload protection
- External REPO switch input
- 512 events memory (512 events 45000 alarms)
- Clock and calender (battery supported)

- Automatic battery test, remaining battery time indicator
- Temperature compansated charge system (optional)
- 2 RS232 serial ports and 12 dry contact outputs
- 3 DSP controlled modular structure
- Optional SNMP and MODBUS adaptors
- Optional graphical panel
- Optional usb flash memory
- Full digital structure
- Small footprint
- Ecomode operation (optional)
- Fewer electronic components
- Output current limiting
- · Advanced diagnostics for the input
- Selectable input/output voltage/frequency/range
- Split by-pass input (second input)
- Output DC leakage protection
- Separate DSP for inverter control
- Separate DSP for the PFC
- 3 level battery protection
- · High charge current capacity
- Charge/discharge current indicator
- Advanced remote control
- Manufactured according to EC Directive; EN62040
- 2 years warranty





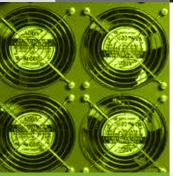


TECHNICAL SPECIFICATIONS

MODEL	DS3300H	DS3400H						
Power (kVA)	300	400						
INPUT								
Voltage	380/400 VAC 3P + N + G ± 20% (at	: 100% load) / - 40% (at 70% load)						
Frequency	50Hz / 60l							
Power factor	≥ 0.99 (at 1	00% load)						
(THDI) (*)								
By-pass voltage	380/400 VAC 3 Pi	hase + N, ± 10%						
Voltage distortion	≤ 10) D%						
Protection	Fuses, Voltage & Frequency tolerance, Inp	out power limit, Phase sequency indicator						
OUTPUT								
Power (kW)	270	360						
Power factor		8 and 1 optional)						
Voltage	380/400 VAC 3P + N, ± 1	·						
Frequency	50Hz /							
Frequency tolerance	Line synchronized: ± 2% (adjus							
Efficiency	up to							
Crest factor	3:							
Overload protection		3: I 100% - 125% load: 10 min, 125% - 150% load: 1 min, - > 150% load: by pass						
Other protections		Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting						
Voltage THD		≤ 3% (at 100% linear load)						
BATTERIES	2200 (82.000)	≤ 3% (at 100% linear load)						
Type	VRLA AGM /	GEL / NiCd						
Number of batteries	2x30 (±30): 60 pieces							
Charge voltage	2x405 VDC							
End of discharge voltage	2x300 VDC							
Battery cabinet	External							
Battery ambient temperature	251	25°C						
Protections	3 level alarms, Battery fuses, Charging current limit, Temperature compensation (optional)							
Automatic testing	Standard every 72 hours (adjustable)							
GENERAL								
Standards	EN62040-1, EN620	040-2, EN62040-3						
User interface	4 lines LCD panel, Mimic leds, 5 vector	r buttons, Buzzer, Optional TFT panel						
Indicators	P-N voltage, P-P voltage, Current, Power,	Crest Factor, Frequency, PF, Service Time						
Advanced	Self diagnostics, 3 maintenance time indicators	s, Calibration over RS232,operating hour meter						
Communication	2xRS232 serial ports, 4 standard and	8 optional DRY contact alarm relays						
Inputs	EPO input, Interactive batter	ry panel input, Genset input						
Genset kit	Standard (pro	ogrammable)						
Software	Standard T-Mon UPS Management Softv	ware (3 clients + 1 server management)						
Alarm logging	Standard:with time	& date 512 events						
Protections	Power module over-temperature, Ov	vercurrent, Temperature high alarm						
Temperature range	0°C -	40°C						
Protection degree	IP2	20						
Relative humidity	90% max. (non	n-condensing)						
Altitude	< 1000m above sea level							
Acoustic noise	< 680	dBA						
Weight without batteries (kg)	635 680							
Dimensions (mm) HxWxD	1900x12	50x775						
OPTIONS								
Different input / output voltage	Pleas	e ask						
Transformer	Galvanic isolation transformer a	at the input & output (internal)						
Software	T-Mon Admin Multi UPS monitoring 10-50-100-	-200 clients, T-Mon Server 50-100-200 clients						
Adaptors	SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP),	USB Alarm Logger, TCP/IP, GSM/GPRS Modem, Comport multiplexer						
Parallel operation	Up to 8	3 units						

(*) Depending on power and input/output conditions





DS POWER X SERIES

UNINTERRUPTIBLE POWER SUPPLIES

3 LEVEL TECHNOLOGY IGBT RECTIFIER DSP CONTROL

The new DX Power range UPS uses the latest DSP technology to be programmed to suit a wide variety of electrical environments without impending its performance. With the DS Power range, efficiency, reliability and functionality are enhanced to levels unattainable with the old analogue technology. This technology does not only create significant increase in MTBF, but the capability of DSP to accurately manipulate signals at very high speed permits all the UPS subsystems to be controlled with greatly increased precision.

- Transformerless UPS topology
- 3 Level rectifier and inverter
- High input power factor
- High efficiency up to 96.0%
- Cold start function
- Static and maintenance by-pass switch
- Output short circuit and overload protection
- External REPO switch input

- 512 events memory (512 events 45000 alarms)Clock and calender (battery supported)
- Automatic battery test, remaining battery time indicator
- Temperature compansated charge system (optional)
- 2 RS232 serial ports and 12 dry contact outputs
- 3 DSP controlled modular structure
- \bullet Optional SNMP and MODBUS adaptors
- Optional graphical panel
- Optional usb flash memory
- Full digital structure
- Small footprint
- Ecomode operation (optional)
- Fewer electronic components
- Output current limiting
- Advanced diagnostics for the input
- Selectable input/output voltage/frequency/range
- Split by-pass input (second input)
- Output DC leakage protection
- Separate DSP for inverter control
- Separate DSP for the PFC
- 3 level battery protection
- High charge current capacity
- Charge/discharge current indicator
- Advanced remote control features
- Manufactured according to EC Directive; EN62040
- 2 years warranty









100 - 400 kVA TECHNICAL SPECIFICATIONS

			1	1		T						
MODEL	DX3100	DX3120	DX3160	DX3200	DX3250	DX3300	DX3400					
Power (kVA)	100	120	160	200	250	300	400					
INPUT						Ask for availability						
Voltage		3	80/400 VAC 3P + N + G	± 20% (at 100% lo	ad) / - 40% (at 70% l	oad)						
Frequency				50Hz / 60Hz, ± 10%								
Power factor (at 100% load)		≥ 0.99										
THDI (*)				≤ 3%								
By-pass voltage			380/400 V	AC 3 Phase + N, ± 10	(adjustable)							
Input voltage THD				≤ 10%								
Protection		Fuses, V	oltage & Frequency to	lerance, Input power	limit, Phase sequen	cy indicator						
OUTPUT												
Power (kW)	100	120	160	200	250	300	400					
Power factor				1.0								
Voltage		$380/400 \text{ VAC } 3P + N, \pm 1\% \text{ (415 VAC optional)}$										
Frequency				50Hz / 60Hz								
Frequency tolerance		Line synchronized: ± 2% (adjustable) / Free running: ± 0,1%										
Efficiency	up to	up to 95.5% up to 96%										
Crest factor				3:1								
Overload protection		at 100% -	125% load : 10 min a	at 125% - 150% load	:1 min > at 150% l	oad : by-pass						
Other protections		Advanced sl	hort circuit, Voltage to	lerance, DC balance,	Regenerative load, C	urrent limiting						
Voltage THD			≤ 2	2% (at 100% linear lo	pad)							
BATTERY												
Туре		VRLA AGM / GEL / NiCd										
Nominal voltage				± 240 VDC / ± 360 VD	С							
Float / End of discharge voltage				± 405 VDC / ± 300 VD	С							
Battery cabinet				External								
Battery ambient temperature				25°C								
Protections		3 level alarn	ns, Battery fuses, Cha	ging current limit, Te	mperature compensa	ation (optional)						
Battery test		Standard every 72 hours (adjustable)										
GENERAL												
Standards			EN6204	40-1, EN62040-2, EN	62040-3							
User interface			5 vecto	or buttons, Buzzer, TF	T panel							
Indicators		P-N volt	age, P-P voltage, Curr	ent, Power, Crest Fac	tor, Frequency, PF, S	ervice Time						
Advanced		Self diagnosti	ics, 3 maintenance tim	e indicators, Calibrat	ion over RS232,opera	ating hour meter						
Communication		2xR	S232 serial ports, 4 st	andard and 8 optiona	l DRY contact alarm	relays						
Inputs			EPO input, Intera	ctive battery panel i	nput, Genset input							
Genset kit			St	andard (programmal	le)							
Software		Standa	ard T-Mon UPS Manag	ement Software (3 cl	ents + 1 server mana	agement)						
Alarm logging			Standar	d:with time & date 5	2 events							
Protections		Po	wer module over-tem	perature, Overcurren	, Temperature high a	larm						
Operating temperature range				0°C - 40°C								
Protection degree				IP20								
Relative humidity			90	% max. (non-condens	ing)							
Altitude			<	1000m above sea le	/el							
Acoustic noise	< 62	dBA	< 65	i dBA								
Weight without batteries (kg)	210	220	262	270		Please ask						
Dimensions (mm) HxWxD		1440x	475x890									
OPTIONS												
Different input / output voltage				Please ask								
Transformer			Galvanic isolation tr	ansformer at the inp	ut & output (external)						
Software		T-Mon Admin N	Multi UPS monitoring 1	0-50-100-200 client	s, T-Mon Server 10-5	0-100-200 clients						
	SNMP RS485 F	Remote monitoring p	anel, MODBUS (RS485	or TCP/IP), USB Ala	m Logger, TCP/IP, GS	SM/GPRS Modem, Con	T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 10-50-100-200 clients SNMP RS485 Remote monitoring panel MODBUS (RS485 or TCP/IP) USB Alarm Logger TCP/IP GSM/GPRS Modem. Comport multiplexer					
Adaptors	o ,	SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP), USB Alarm Logger, TCP/IP, GSM/GPRS Modem, Comport multiplexer										





120 - 250 kVA

DS POWER XL SERIES

UNINTERRUPTIBLE POWER SUPPLIES

3 LEVEL TECHNOLOGY IGBT RECTIFIER DSP CONTROL

The new DS Power XL range UPS uses the latest DSP technology to be programmed to suit a wide variety of electrical environments without impending its performance. With the DS Power XL range, efficiency, reliability and functionality are enhanced to levels unattainable with the old analogue technology. This technology does not only create significant increase in MTBF, but the capability of DSP to accurately manipulate signals at very high speed permits all the UPS subsystems to be controlled with greatly increased precision.

- Transformerless UPS topology
- 3 Level rectifier and inverter
- High input power factor
- High efficiency up to 96.0%
- Cold start function
- Static and maintenance by-pass switch
- Output short circuit and overload protection
- External REPO switch input

- 512 events memory (512 events 45000 alarms)
- Clock and calender (battery supported)
- Automatic battery test, remaining battery time indicator
- Temperature compansated charge system (optional)
- 2 RS232 serial ports and 12 dry contact outputs
- 3 DSP controlled modular structure
- \bullet Optional SNMP and MODBUS adaptors
- Optional graphical panel
- Optional usb flash memory
- Full digital structure
- Small footprint
- Ecomode operation (optional)
- Fewer electronic components
- Output current limiting
- Advanced diagnostics for the input
- Selectable input/output voltage/frequency/range
- Split by-pass input (second input)
- Output DC leakage protection
- Separate DSP for inverter control
- Separate DSP for the PFC
- 3 level battery protection
- High charge current capacity
- Charge/discharge current indicator
- Advanced remote control features
- Manufactured according to EC Directive; EN62040
- 2 years warranty



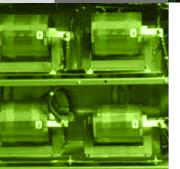




120 - 250 kVA TECHNICAL SPECIFICATIONS

MODEL	DXL3120	DXL3120 DXL3160 DXL3200 DXL325								
Power (kVA)	120 160 200 2									
INPUT										
Voltage		380/400 VAC 3P + N + G ± 20% (at 100% load) / - 40% (at 70% load)								
Frequency		50Hz / 60Hz, ± 5%								
Power factor (at 100% load)		≥ 0.99								
THDI (*)		≤ 3%								
By-pass voltage		380/400 VAC 3 Phase	+ N, ± 10 (adjustable)							
Input voltage THD		≤ 10	0%							
Protection	Fuses	s, Voltage & Frequency tolerance, Inp	out power limit, Phase sequency ind	licator						
OUTPUT										
Power (kW)	108	144	180	225						
Power factor	0.9									
Voltage		380/400 VAC 3P + N, ±								
Frequency		50Hz /								
Frequency tolerance		Line synchronized: ± 2% (adjus								
Efficiency	up to 9			to 96%						
Crest factor	ир со э	3:570	<u> </u>	.0 3070						
Overload protection	a+ 1000	3: 6 - 125% load : 10 min at 125% - 1		by page						
				, .						
Other protections	Advance	d short circuit, Voltage tolerance, DC		it limiting						
Voltage THD		≤ 2% (at 1009	% linear load)							
BATTERY			(AT) (AN) (A							
Туре		VRLA AGM / GEL / NiCd								
Nominal voltage		± 360								
Float / End of discharge voltage		± 405 VDC /								
Battery cabinet		Exte								
Battery ambient temperature		25°C								
Protections _	3 level al	3 level alarms, Battery fuses, Charging current limit, Temperature compensation (optional)								
Battery test		Standard every 72 hours (adjustable)								
GENERAL										
Standards		EN62040-1, EN620	· · · · · · · · · · · · · · · · · · ·							
User interface		5 vector buttons, I	, ı							
Indicators		roltage, P-P voltage, Current, Power,								
Advanced		ostics, 3 maintenance time indicators								
Communication		2xRS232 serial ports, 4 standard and	· · · · · · · · · · · · · · · · · · ·	/S						
Inputs		EPO input, Interactive batte								
Genset kit		Standard (programmable)								
Software	Sta	ındard T-Mon UPS Management Softv		ent)						
Alarm logging		Standard:with time	& date 512 events							
Protections		Power module over-temperature, Ov	vercurrent, Temperature high alarm							
Operating temperature range		0°C -	40°C							
Protection degree		IP2	20							
Relative humidity		90% max. (non-condensing)								
Altitude	< 1000m above sea level									
Acoustic noise	< 62 dBA < 65 dBA									
Weight without batteries (kg)	210 220 262 295									
Dimensions (mm) HxWxD		1440x475x890 1440x475x970								
OPTIONS										
Different input / output voltage		Pleas	e ask							
Transformer	Galvanic isolation transformer at the input & output (external)									
Software	T-Mon Adm	T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 10-50-100-200 clients								
Adaptors		g panel, MODBUS (RS485 or TCP/IP),								
Parallel operation	up to 8 units									
T didition operation	up to 0 times									





400 - 600 kW

DS POWER SERIES

UNINTERRUPTIBLE POWER SUPPLIES

IGBT RECTIFIER DSP CONTROL

The new DS Power range UPS uses the latest DSP technology to be programmed to suit a wide variety of electrical environments without impending its performance. With the DS Power range, efficiency, reliability and functionality are enhanced to levels unattainable with the old analogue technology. This technology does not only create significant increase in MTBF, but the capability of DSP to accurately manipulate signals at very high speed permits all the UPS subsystems to be controlled with greatly increased precision.

- Transformerless UPS topology
- Low input current total harmonic distortion (THD)
- · High input power factor
- High efficiency up to 94.5%
- Cold start function
- Static and maintenance by-pass switch
- Output short circuit and overload protection
- External REPO switch input

- 512 events memory (512 events 45000 alarms)
- Clock and calender (battery supported)
- \bullet Automatic battery test, remaining battery time indicator
- Temperature compansated charge system (optional)
- 2 RS232 serial ports and 12 dry contact outputs
- 3 DSP controlled modular structure
- Optional SNMP and MODBUS adaptors
- Optional graphical panel
- Optional usb flash memory
- Full digital structure
- Small footprint
- Ecomode operation (optional)
- Fewer electronic components
- Output current limiting
- Advanced diagnostics for the input
- Selectable input/output coltage/frequency/range
- Split by-pass input (second input)
- Output DC leakage protection
- Separate DSP for inverter control
- Separate DSP for the PFC
- 3 level battery protection
- High charge current capacity
- Charge/discharge current indicator
- Advanced remote control features
- \bullet Manufactured according to EC Directive; EN62040
- 2 years warranty







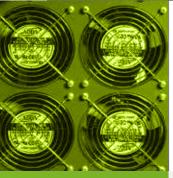


400 - 600 kW

TECHNICAL SPECIFICATIONS

MODEL	DS3400	DS3500	DS3600								
Power (kVA=kW)	400	500 600									
INPUT	<u>'</u>										
Voltage	380/400 VAC 3P + N + G ± 20% (415 VAC +15%, - 25% optional)										
Frequency	500/400 VAC 31 + N + 0 ± 20% (413 VAC +13%), - 25% optional/										
Power factor (at 100% load)	≥ 0.99										
(THDI) (*)											
By-pass voltage		≤ 3%									
Voltage distortion		380/400 VAC 3P + N , 4 Wires, ± 10%									
Protection	Fusos Voltago	≤ 10%									
	Fuses, Voltage & Frequency tolerance, Input power limit,Phase sequency indicator										
OUTPUT	100										
Power (kW)	400	500	600								
Power factor		1									
Voltage		380/400 VAC 3 Phase + N , ± 1% (415 optional)									
Frequency		50Hz / 60Hz									
Frequency tolerance		Line synchronized: ± 2% / Free running: ± 0,1%									
Efficiency		up to 94.5%									
Crest factor		3:1									
Overload protection		6 load: 10 min, 125% - 150% load: 1 min, - > 150%									
Other protections	Advanced short circ	Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting									
Voltage THD	< 3% (at 100% linear load)										
BATTERIES											
Туре	VRLA AGM / GEL / NiCd										
Nominal voltage		± 360 VDC (2x30 batteries)									
Float / End of discharge voltage		± 405 VDC / ± 300 VDC									
Battery cabinet		External									
Battery ambient temp.	25℃										
Protections	3 level alarms, Battery fuses, Charging current limit, Temperature compensation (optional)										
Automatic testing	Standard every 72 hours (adjustable)										
GENERAL											
Standards		EN62040-1, EN62040-2, EN62040-3									
User interface		TFT panel, 5 vector buttons, Buzzer									
Indicators	P-N voltage, P-F	P voltage, Current, Power, Crest Factor, Frequency	, PF, Service Time								
Advanced	Self diagnostics, 3 ma	aintenance time indicators, Calibration over RS232	operating hour meter								
Communication	2xRS232 se	rial ports, 4 standard and 8 optional DRY contact	alarm relays								
Inputs	EP	O input, Interactive battery panel input, Genset in	put								
Genset kit		Standard (programmable)									
Software	Standard T-Mo	on UPS Management Software (3 clients + 1 serve	r management)								
Alarm logging		Standard: with time & date 512 events									
Protections	Power mod	dule over-temperature, Over current, Temperature	high alarm								
Temperature range		0°C - 40°C									
Protection degree		IP20									
Relative humidity	90% max. (non-condensing)										
Altitude	< 1000m. above sea level										
Acoustic noise	< 72 dBA										
Weight without batteries (kg)	780 1452										
Dimensions (mm) HxWxD	2040x1250x840 1940x1610x1050										
OPTIONS											
Different input / output voltage		Please ask									
Transformer	Galvanic isolation transformer at the input & output										
Software	T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 50-100-200 clients										
Adaptors		SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP), USB Alarm Logger, TCP/IP ,GSM/GPRS Modem, Comport multiplexer									
Parallel operation	Up to 8 units										
, aratter operation	ομ το ο αι ιιτο										





DS POWER 300HT SERIES

UNINTERRUPTIBLE POWER SUPPLIES

IGBT RECTIFIER DSP CONTROL

The new DS Power range UPS uses the latest DSP technology to be programmed to suit a wide variety of electrical environments without impending its performance. With the DS Power range, efficiency, reliability and functionality are enhanced to levels unattainable with the old analogue technology. This technology does not only create significant increase in MTBF, but the capability of DSP to accurately manipulate signals at very high speed permits all the UPS subsystems to be controlled with greatly increased precision.

- Galvanic isolation at output
- Low input current total harmonic distortion (THD)
- High input power factor
- High efficiency up to 93,5%
- Cold start function
- Static and maintenance by-pass switch
- Output short circuit and overload protection
- External REPO switch input
- 512 events memory (512 events 45000 alarms)
- Clock and calender (battery supported)

- Automatic battery test, remaining battery time indicator
- Temperature compansated charge system (optional)
- 2 RS232 serial ports and 12 dry contact outputs
- 3 DSP controlled modular structure
- Optional SNMP and MODBUS adaptors
- Optional graphical panel
- Optional usb flash memory
- Full digital structure
- Small footprint
- Ecomode operation (optional)
- Fewer electronic components
- Output current limiting
- Advanced diagnostics for the input
- Selectable input/output voltage/frequency/range
- Split by-pass input (second input)
- Output DC leakage protection
- Seperate DSP for inverter control
- Seperate DSP for the PFC
- 3 level battery protection
- · High charge current capacity
- Charge/discharge current indicator
- Advanced remote control
- Manufactured according to EC Directive; EN62040
- 2 years warranty





TECHNICAL SPECIFICATIONS

Power 64/M 10			1			ı	1	ı	ı	ı	ı			<u> </u>	
Notice	MODEL	DS310HT													
Transpare		10 15 20 30 40 60 80 100 120 160 200 250 300 400											400		
Power factor	INPUT														
Content Cont		• • • • • • • • • • • • • • • • • • • •													
Page 2014 Page	· · · ·		<u> </u>												
Working distantion															
Protection Fuses, Voltage & Frequency tolerance, Injust prover limit, Phase sequency indicator		<u> </u>													
Protection OutPUT															
Power (AVD)															
Power factor			Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator												
Power factor			0 125 10 27 26 57 72 00 100 100 27 225 225 225												
Standards		9	13,5	18	27	36	54			108	144	180	225	270	360
Frequency tolerance															
Efficiency		<u> </u>													
Crest factor															
Overload protection Overload protection Other protections Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting Voltage THD VRLA AGM / GEL / Nicd Nominal voltage Flox / End of discharge voltage Battery cabinet Battery cabinet Battery arabient temperature Battery arabient temperature Flox indicators Advanced Battery arabient temperature Brock indicators Automatic testing GENERAL Standards Self diagnostics, 3 maintenance time indicators, Calibration over RS232 operating hour meter Advanced Carmunication Software Flox flows Flow protections Software Software Software Software Protections Protections Protections Software So	<u> </u>	•													
Overload protections Other protections Other protections Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting Voltage THD Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting Voltage THD Average Agent Standard St	<u> </u>		<u>'</u>												
Notinger THO Notinger THO SATTERIES Figure Nominal voltage Float / End of discharge voltage Battery cabine Battery cabine Battery cabine Foretcions Automatic testing Standards User interface Indicators PN voltage, P.P voltage, P.P voltage, Current, Peregueruc, PF, Service Time Self diagnostics, 3 maintenance time indicators, Calibration over RS232, serating nor RS232 serial ports, A standard and 80 ptional DRY contact alarm relays Float relative battery range Protections Software Relate the migrature range Protections Foretcetions Foretcetions Foretcetions Alarn logging Protections Power module over-temperature. Over-current, Temperature high alarm Temperature range Relate the midrighty Foretcetions Power module over-temperature. Over-current, Temperature high alarm Temperature range Relate the midrighty Foretcetions Foretc															
Section Sect	<u></u>														
Type															
Nominal voltage	<u>-</u>		S70 (at 10070 tilledi todu)												
Hoart / End of discharge voltage			VPLA AGM / GFL / NICH												
## Standard Find of discharge voltage Battery cabinet External Extern															
Battery cabinet Battery ambient temperature Protections Automatic testing Standards Standard Standards Standard Standards Standard (programmable) Standa															
Protections 3 level alarms, Battery fuses, Charging current limit, Temperature compensation (optional) Automatic testing GENERAL Standards User interface 4 lines LCD panel, Mimic leds, 5 vector buttons, Buzzer, Optional TFT panel Indicators P-N voltage, P-P voltage, Current, Power, Crest Factor, Frequency, PF, Service Time Advanced Self diagnostics, 3 maintenance time indicators, Calibration over RS232, operating hour meter Communication 2xRS232 serial ports, 4 standard and spoinal DRY contact alarm relays EPO input, Interactive battery panel input, Genset input Genset kit Standard T-Mon UPS Management Software (3 clients + 1 server management) Alarm logging Standard-With time & date 512 events Protections Power module over-temperature, Over current, Temperature high alarm Temperature range Protection degree Relative humidity Altitude 4 lines CD panel, Mimic leds, 5 vector buttons, Buzzer, Optional TFT panel Standard (programmable) Protections Power module over-temperature, Over current, Temperature high alarm Temperature range Protection degree Relative humidity Altitude										<u>-</u>					
Automatic testing GENERAL Standards User interface Advanced Advanced Self diagnostics, 3 maintenance time indicators, Calibration over RS232, operating hour meter Communication Genest kit Genest kit Standard T-Mon UPS Management Software (3 clients + 1 server management) Alarm logging Protections Power module over-temperature, Over current, Temperature high alarm Temperature range Protection degree Acoustic noise Acoustic noise Acoustic noise Acoustic noise OPTIONS Different input / Output voltage Software T-Mon Admin Multi UPS monitoring panel, MODBUS (RS485 or TCP/IP), USB Alarm Logger, TCP/IP, GSM/GPRS Modem, Comport multiplexer															
Standard every 72 hours (adjustable) GENERAL Standards User interface A lines LCD panel, Mimic leds, 5 vector buttons, Buzzer, Optional TFT panel Indicators P-N voltage, P-P voltage, Current, Power, Crest Factor, Frequency, PF, Service Time Advanced Self diagnostics, 3 maintenance time indicators, Calibration over RS232, operating hour meter Communication 2xRS232 serial ports, 4 standard and 8 optional DRY contact alarm relays Inputs Genset kit Standard T-Mon UPS Management Software (3 clients + 1 server management) Standard T-Mon UPS Management Software (3 clients + 1 server management) Frotections Power module over-temperature, Over current, Temperature high alarm Temperature range Protection degree Relative humidity Altitude Acoustic noise 4 Standard				3 le	vel alarms	. Battery f	uses Char			nnerature	compensat	ion (ontion	nal)		
Standards						, 2000., .				-		(0 p c	,		
Standards User interface User interface User interface User interface Indicators Indicators P-N voltage, P-P voltage, Current, Power, Crest Factor, Frequency, PF, Service Time Advanced Advanced Self diagnostics, 3 maintenance time indicators, Calibration over RS232, operating hour meter ZxRS23 serial ports, 4 standard and 8 optional DRY contact alarm relays EPO input, Interactive battery panel input, Genset input Genset kit Genset kit Standard (programmable) Software Standard T-Mon UPS Management Software (3 clients + 1 server management) Alarm logging Frotections Power module over-temperature, Over current, Temperature high alarm Temperature range Protection degree Relative humidity Altitude Acoustic noise								,	` ,	•					
User interface A lines LCD panel, Mimic leds, 5 vector buttons, Buzzer, Optional TFT panel Indicators							FN6204	.0-1. FN620	040-2. FN6	2040-3					
Indicators					4 lines	s LCD pane					tional TFT	panel			
Self diagnostics, 3 maintenance time indicators, Calibration over R5232, operating hour meter Communication 2xRS232 serial ports, 4 standard and 8 optional DRY contact alarm relays EPO input, Interactive battery panel input, Genset input Sandard (programmable) Software Standard T-Mon UPS Management Software (3 clients + 1 server management) Alarm logging Protections Power module over-temperature, Over current, Temperature high alarm Temperature range Protection degree Relative humidity Acoustic noise 457 dBA 462 dBA 464 dBA 464 dBA 464 dBA 467 910,5 1150 1283 1497 Dimensions (mm) HXWXD Dimensions (mm) HXWXD Different input / output voltage Software Adaptors SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP), USB Alarm Logger, TCP/IP, GSM/GPRS Modem, Comport multiplexer							-					<u> </u>			
EPO input, Interactive battery panel input, Genset input	Advanced					-							eter		
EPO input, Interactive battery panel input, Genset input	Communication				2xRS	232 serial	ports, 4 sta	andard and	8 optional	DRY conta	act alarm r	elays			
Software Standard T-Mon UPS Management Software (3 clients + 1 server management) Alarm logging Standard:with time & date 512 events Protections Power module over-temperature, Over current, Temperature high alarm Temperature range IP20 Relative humidity 90% max. (non-condensing) Altitude < 1000m above sea level	Inputs					EP0 in	put, Intera	ctive batte	ry panel in	put, Gense	t input				
Standard: with time & date 512 events Protections Power module over-temperature, Over current, Temperature high alarm Temperature range UPC - 40°C Protection degree IP20 Relative humidity 90% max. (non-condensing) Altitude C 1000m above sea level Acoustic noise < 57 dBA	Genset kit						St	andard (pro	ogrammab	le)					
Protections	Software				Standar	d T-Mon U	PS Manage	ement Soft	ware (3 clie	ents + 1 se	rver manaç	gement)			
Temperature range	Alarm logging						Standard	d:with time	& date 51	2 events					
Protection degree	Protections				Pow	er module	over-temp	erature, Ov	ver current	, Temperat	ure high al	arm			
Relative humidity	Temperature range							0°C -	40°C						
Altitude Acoustic noise	Protection degree														
Acoustic noise < 57 dBA															
Weight (kg) 187 198,5 244 270 393 457 536 539 595 647 910,5 1150 1283 1497 Different input / output voltage Please ask Software T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 50-100-200 clients Adaptors SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP), USB Alarm Logger, TCP/IP ,GSM/GPRS Modem, Comport multiplexer															
Dimensions (mm) HxWxD OPTIONS Different input / output voltage Software T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 50-100-200 clients SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP), USB Alarm Logger, TCP/IP ,GSM/GPRS Modem, Comport multiplexer						T				1					
Different input / output voltage Software Adaptors Please ask T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 50-100-200 clients SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP), USB Alarm Logger, TCP/IP ,GSM/GPRS Modem, Comport multiplexer		187			270				539			910,5			1497
Different input / output voltage Please ask T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 50-100-200 clients Adaptors SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP), USB Alarm Logger, TCP/IP ,GSM/GPRS Modem, Comport multiplexer		1U4Ux4UUx815													
Software T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 50-100-200 clients Adaptors SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP), USB Alarm Logger, TCP/IP ,GSM/GPRS Modem, Comport multiplexer															
Adaptors SNMP, RS485, Remote monitoring panel, MODBUS (RS485 or TCP/IP), USB Alarm Logger, TCP/IP ,GSM/GPRS Modem, Comport multiplexer															
		SNMF	r, RS485, R	emote mor	nitoring par	nel, MÖDB	US (RS485			n Logger, [¬]	ICP/IP ,GSN	M/GPRS Mo	odem, Com	port multip	lexer
Parallel operation up to 8 units	Parallel operation							up to 8	units						

(*) Depending on power and input/output conditions

Please ask for higher powers





10 - 90 kVA

MTR MODULAR UPS SERIES

UNINTERRUPTIBLE POWER SUPPLIES

GENERAL SPECIFICATIONS

Rack modular design

Modular design, compatible with 19" standard rack cabinet, convenient to be integrated with servers

High power density

10/15kVA (10/15kW) power module in 2U height, saving great amount of space, easy for capacity expansion

Integrated solution for data center

UPS can be integrated with battery cabinet, PDU and external maintenance bypass, offering excellent choice for data center

Intelligent charging management

The system intelligently control the whole process of the charging and discharging, effectively improving the life time of the battery

Flexible configuration

The system can be configured to 3/3, 3/1 and 1/1 without derating

Friendly interface

7" touch color LCD with graphic display, more information displayed and easier for customer to operate

Smart sleep function

System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency

Self-aging mode

Energy internal circle technology, system can run with full load ,saving more than 90% energy













10 - 90 kVA

TECHNICAL SPECIFICATIONS

	MODEL	MTR-020/10X	*MTR-030/10X	MTR-040/10X	MTR-060/10X	MTR-030/15X	*MTR-045/15X	MTR-090/15X				
	Capacity	TPM10X (10kVA/10kW) TPM15X (15kVA/15kW)										
	INPUT											
	Phase	(1/1P - 3/1P - 3	(1/1P - 3/1P - 3/3P) 3P+N+G (380/400/415V) ~ 1P+N+G (220/230/240V) 3P+N+G (380/400/415V)									
	Voltage range			304-4	78Vac (line-line),100%	load;						
				228-304Vac loa	ad derated from 100%	- 75% linearly						
F	requency range				40Hz-70Hz							
	Power factor		>0.99									
	THDi			** THI	Di < 4% @ 100% linea	r load						
	OUTPUT											
	Voltage	(1/1P - 3/1P - 3/3	P) 3P+ N + G (380/40	10/415V) ~ 1P + N + I		3F	P+ N +G (380/400/415	V)				
Vol	tage regulation				1.5%							
	Power factor				1							
	THDu											
0.4	Crest factor 3:1 Overload capacity 110% for 1 hour; 125% for 10 min; 150% for 1 min; 150% for 200 ms											
UV	erload capacity BATTERY			0% for 1 nour; 125%	ior io min; 150% ior	min; 150% for 200 i	TIS					
	Voltage			+ 2/0 VDC for /0 ha	tteries (selectable ba	ttory number 36-44)						
	Charge power			1 240 VDC 101 40 Da	20%* System power	itery fluiriber 30-44)						
Charge vo	oltage precision				±1%							
	SYSTEM											
Sv	stem efficiency			Normal mode: 95%	6; ECO mode: 98%; Ba	ttery mode: 94.5%						
	Display				uch screen LCD + LEI							
	IP class				IP20	<u> </u>						
	Interface		Standart:	RS232, RS485, dry c	ontacts Optional: SNN	ИР, Expansion dry cor	ntact card					
Operation ,	/ storage temp.				0-40°C/-25-70°C							
Re	lative humidity			0-	-95% (non-condensin	3)						
	Acoustic noise		56dBA (1 meter away) 58dBA (1 meter away)									
	Options		Parallel operation, Battery compansated battery charging, Movable cabinet with castors									
	PHYSICAL											
Weight (kg)	Cabinet	42	55	51	85	42	55	85				
vveignt (kg)	Power module		15	i.3			15.5					
	Cabinet	398x485x697	575x485x751	575x485x697	1033x485x751	398x485x697	575x485x751	1033x485x751				
Dimension (HxWxD) mm	Height	7U	11U	11U	21U	7 U	11U	21U				
	Power module			I.	(2U) 85x436x590		1	1				
		(ZU) 03X430X39U										

^(*) Parallel operation

^(**) Only for 3/3 phase





MTI200 MODULAR UPS SERIES

UNINTERRUPTIBLE POWER SUPPLIES

MTI200 series is modular online UPS for sensitive equipments. The single cabinet power rating covers from 20kVA to 200kVA which delivers the best of combination of reliability, hot-swappable and flexibility.

With the latest IGBT 3-level technology and DSP control, MTI200 achieves a high input power factor, low THDI.

- Modular design with N+X redundancy and online hot swapping ,easy to expand the capacity
- Full DSP control of high stability, reliability and safety
- Integrated IGBT module with improved performance and reduced size

- Excellent input performances for complete compatibility with input PF of 99% and wide range of voltage
- Self-Aging mode for full load test with less than 10% of the total power capacity needed
- Smart charging management system, intelligently control the whole process of the charging and discharging effectively improve the life time of the battery
- Independent charger for batteries, intelligent battery management system
- Battery cold start, UPS can be powered on from the battery without utility.
- Totally front access, top and bottom cable connection
- User friendly machine interface with touch screen







10 - 400 kVA TECHNICAL SPECIFICATIONS

	MODEL	MTI2060/20 - MTI2030/10	MTI2060/20 - MTI2030/10 MTI2120/20 - MTI2060/10 MTI2200/2							
	Capacity		10 - 400kVA							
Po	wer module type		TPM20/TPM15/TPM10							
	INPUT									
	Phase		3P + N + G							
	Voltage		380V/400V/415V (line to line)							
	Frequency		50Hz / 60Hz							
	Power factor		> 0.99							
	THDI		THDI < 3% @100% linear load							
	Voltage range		-20% ∼ + 25%							
	Frequency range		40Hz \sim 70Hz							
	OUTPUT									
	Voltage		380V/400V/415V							
Vo	oltage regulation		±1% (Balance load); ± 1.5% (unbalance load)							
	Voltage THD	TH	HD < 1.5% (linear load), THD < 6% (none linear load)							
	Power factor		0.9							
	Crest ratio		3:1							
Ov	erload capability	110% for 1 ho	110% for 1 hour; 125% for 10 minutes ;150% for 1 minute; >150% for 200ms							
	BATTERY									
	Voltage		± 240 VDC							
	Charge power		20%*System Power							
Charge	power precision		±1%							
	SYSTEM									
F	Parallel (cabinet)	6	3	2						
9	System efficiency		Normal mode: 95%; ECO mode: 98%;							
		Battery mode: 95%								
	Display	LCD + LED, touch screen + keyboard								
	IP class	IP20								
Interface (com	munication port)	Standard: RS232,RS485, Dry contacts, EPO / Optional: SNMP card								
Operation	n / storage temp.	0~40°C /-40~70°C								
F	Relative humidity		0∼95% (non-condensing)							
	Noise	55dB (1 meter away)								
	PHYSICAL									
Weight (kg)	Cabinet	3-Slc	ot cabinet:120; 6- Slot cabinet:151;10-Slot cabinet:1	82						
vveignt (kg)	Power module		TPM10:20kg, TPM15:21kg, TPM20:22kg							
Dimension	Cabinet	3-Slot cabinet:1100x6	500x900; 6-Slot cabinet: 1600x600x900;10-Slot cab	inet: 2000x600x900						
(HxWxD) mm	Power module		TPM10/TPM15/TPM20: 134x440x590							
		11 MTO/ 11 MTO/ 11 MEO. 134A440A330								

^(*) Single cabinet with internal batteries





30 - 900 kVA

MTI300 MODULAR UPS SERIES

UNINTERRUPTIBLE POWER SUPPLIES

The MTI300 Series Modular UPS provides the most compact footprint of less than $2m^2$ with maximum capacity of 900kVA. MTI300/30kVA is considered to be the best power protection solution for large data centers, as well as for sensitive electronics.

The MTI600 Series Modular UPS provides power capacity of 600kVA in one single system. With the most advanced full DSP control technology, health management system and smart monitoring system, it has been proven to be the best choice for large data centers, as well as for sensitive electronics.

- 3 Level topology
- Modular design with N+X redundancy
- Online hot swapping, by-pass and power module feature
- Optional dual input
- High power density with footprints of less than 2m² up to 900kVA in parallel, 30kVA power module with only 3U height
- High power density of 600kVA in one single cabinet, 30kVA power module with only 3U height
- Green and energy saving: AC/AC efficiency > 95%, input power factor > 0.99 while input THDi < 3%
- Full DSP control of high stability, reliability and safety
- Integrated IGBT module with improved performance and reduced size

- Excellent input performances for complete compatibility with input PF of 99% and wide range of voltage
- Self-Aging mode for full load test with less than 10% of the total power capacity needed
- Smart Sleeping mode for energy saving and prolong the life time of the system
- Optimized battery management, intelligently control the whole process of the charging and discharging, effectively improve the life time of the battery
- Battery cold start, UPS can be powered on from the battery without utility
- Automatically record the critical wave information when fault happens, easy for trouble shooting
- Independent LCD display for each power module with self-starting function
- Programmable dry contacts, the function of each port can be defined by users
- User friendly machine interface with colorful touch screen of 10.4 inches







30 - 900 kVA

	MODEL	MTI3180/30	MTI3300/30	MTI3600/30				
	Capacity	30 - 900kVA	30 - 900kVA 30 - 600kVA					
Р	ower module type		TPM30 (30kVA/27kW)					
	INPUT							
	Phase		3 Phases + Neutral + Ground					
	Voltage		380V/400V/415V (line to line)					
	Frequency		50Hz / 60Hz					
	Power factor		> 0.99					
	THDI		THDi < 3% @ 100% linear load					
	Voltage Range	304~478Vac (Line-Line) full load,	228V~304Vac (Line-Line) load decrease linearly a	according to the min phase voltage				
	Frequency range		40Hz~70Hz					
	OUTPUT							
	Voltage		380V/400V/415V					
1	oltage regulation		1.5%					
	THDu	-	THD < 1% (linear load), THD < 6% (none linear load)					
	Power factor	0.9						
	Crest factor		3:1					
0	verload capability	1 hour for 110% load; 1	1 hour for 110% load; 10 minutes for 125% load; 1 minutes for 150% load; 200ms for > 150% load					
	BATTERY							
	Voltage	± 240	VDC for 40 batteries (selectable battery number	36-44)				
	Charge power		20%*System Power					
Charge	voltage precision		± 1%					
	SYSTEM							
	Parallel (cabinet)	5	3	-				
	System efficiency	Normal mode: 95% ; ECO mode: 99% ; Battery mode: 95%						
	Display	10.4" LCD + LED, Color touch screen + Keyboard						
	IP Class	IP20						
	Interface	Standard: RS232, RS485, Dry contacts, USB; Optional: SNMP						
Operation	on / storage temp.	0 ~ 40°C / -40 ~ 70°C						
	Relative humidity		0 ~ 95% (non-condensing)					
	Acoustic noise	65dB @100% load, 6	S2dB @ 45% load (1m away)	72dB @100% load, 68dB @ 45% load (1m away)				
	PHYSICAL							
Weight (kg)	Cabinet	6-Slot Cabinet: 165	10-Slot Cabinet: 220	660				
vveignt (kg)	Power module		TPM30kVA: 34					
Dimension	Cabinet	6-Slot Cabinet: 1600x600x1100	10-Slot Cabinet: 2000x600x1100	20-Slot cabinet: 2000x2000x1050				
(HxWxD) mm	Power module		TPM30kVA: (3U) 134x460x790					





50 - 500 kVA

MTI500 MODULAR UPS SERIES

UNINTERRUPTIBLE POWER SUPPLIES

MTI500 series modular, online UPS ranging from 50kVA to 500kVA is designed to protect any critical load for medium and large data center achieving maximum availability.

The MTI500 Modular Ups Series feature the latest technology of 3 level technology and PFC input control, which guarantees high efficiency of 96% and ultra-reliability. Its compact design ensures power density of 500kVA in one cabinet, 3 units can be paralleled for capacity redundancy up to 1500kVA, making it an excellent choice for medium and large facilities.

GENERAL SPECIFICATIONS

Compact design

500kVA in one cabinet, footprint less than 1.5m², saving valuable room space

High power density

50kVA power module in 4U height, easy for capacity expansion



High efficiency

Advanced 3-level technology quarantees high efficiency operating in double conversion mode up to 96%

Intelligent charging management

The system intelligently control the whole process of the charging and discharging, effectively improve the life time of the battery.

High scalability

The system can be configured from 40kVA to 500kVA in one single cabinet, 3 units in parallel for a capacity up to 1500kVA

Friendly HMI

10.4" touch color LCD with graphic display, independent LCD for each power module

Smart sleep function

System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency







50 - 500 kVA

MODEL	MTI-5100/50	MTI-5200/50	MTI-5300/50	MTI-5500/50				
Capacity	100kVA/100kW	200kVA/200kW	300kVA/300kW	500kVA/500kW				
Power module type		TPM	50X1					
MAIN INPUT								
Grid system		3P +	N + G					
Rated input voltage		380/400	/415VAC					
Rated frequency		-	60Hz					
Input voltage range	2201	· ·	ne-Line),full load					
Input frequency range	228V-	~304Vac (Line-Line),load decrease lir	nearly according to the min phase vo / 70Hz	itage				
Input power factor		> 0						
Input current THDi			% linear load					
BYPASS INPUT		3,72 3,733						
Rated bypass voltage		380/400/415V	AC (Line Line)					
Rated bypass voltage Rated frequency			OHz					
Bypass voltage range			ault -20%~+15%					
_,,,		Up limited: +10%, -						
		Down limited: -10%, -1						
Bypass frequency range		Selectable, ±1	Hz, ±3Hz, ±5Hz					
Bypass overload	125%, long tir	•		erm operation				
	125%< load <130%, last f			for more than 5min				
	130% <load<150%,last f<="" th=""><th></th><th>1==7= 1==7= 1===</th><th>for more than 1min</th></load<150%,last>		1==7= 1==7= 1===	for more than 1min				
	>150%, last for m	nore than 300ms	>150% last fo	r more than 1s				
OUTPUT								
Rated inverter voltage		380/400/415VAC (Line-Line)						
Rated frequency		50/60Hz						
Output power factor		1						
Voltage precision Transient response	±2% <5% for sten load (20% - 80% - 20%)							
Transient recovery		<5% for step load (20% - 80% -20%) < 30ms for step load (0% - 100% -0%)						
Output voltage THDu		< 30ms for step toad (0% - 100% -0%) "<1.5% from 0% to 100% linear load						
, ,		<6% full non-linear load according to IEC/EN62040-3"						
Inverter overload	<110%, 60min;							
		110%~125%,10min;						
		125%~15						
Frequency Regulation		>150%,200ms" 50/60Hz+0.01%						
Synchronized Range								
Synchronized Slew Rate		Settable, ±0.5Hz \sim ±5Hz, default ±3Hz Settable, 0.5Hz/S \sim 3Hz/S, default 0.5Hz/S						
BATTERY AND CHARGER		,						
Battery rate voltage		+240	OVDC					
Charger voltage precision			%					
Charger power			Output power					
EFFICIENCY								
Normal Operation		>91	 6%					
Battery Operation		>9						
SYSTEM								
Display		LED + LCD +	touch caroon					
Interface	RS232, RS485, USB,Pro			ogrammable dry contac				
Option	Battery cold start,SNN	-		ntning protection components,				
Орион	Lightning protection com	•		lter,LBS				
ENVIRONMENTAL	5	, ,						
		0	~ 40 °C					
Operation temperature Storage temperature			~ 40 °C 0 ~ 70 °C					
Relative humidity			Non condencing					
Noise (1 meter)			oad, 62dB @ 45% load					
Altitude			6 per 100m From 1000 ~ 2000m					
PHYSICAL DATA								
Cabinet Dimension(W*D*H,mm)	600*980*1150	650*960*1600	650*970*2000	1300*1100*2000				
Cabinet Weight (kg)	210	350	490	900				
Cubinist Height (Ng)	2.0	555						



3 - 15 kVA

100 SERIES

UNINTERRUPTIBLE POWER SUPPLIES

Tescom 100 series are, True online, Double conversion UPS Systems, manufactured with the state of the art, PWM and IGBT technology, producing microprocessor controlled pure sinewave output to critical loads.

- Output isolation transformer
- Up to 91% efficiency
- Static by-pass
- LCD front panel
- 64 events memory
- RS232 and relay contacts

- Custom input and output voltage ranges
- SNMP compatible communication
- T-MON remote monitoring software
- Parallel operation
- Manufactured according to EC Directive; EN62040
- 2 years warranty





3 - 15 kVA

MODEL	XT103	XT105	XT107	XT110	XT115				
Power (kVA)	3	5	7	10	15				
INPUT		· · · · · · · · · · · · · · · · · · ·							
Voltage			220/230 VAC P + N + G ± 15%	j					
By-pass voltage			220/230 VAC P + N ± 10%						
Frequency			50Hz / 60Hz ± 5%						
OUTPUT									
Power (kW)	2,1	3,25	4,55	7	10,5				
Power factor	0.7	0.	65	0	.7				
Voltage			220/230 VAC P+ N ± 1%						
Frequency			50Hz (60Hz on request)						
Frequency tolerance		Line syr	nchronized: ± 2% , free running	g: ± 0,2%					
Efficiency (at 100% load)		up to 90%		up to	91%				
Crest factor			3:1						
Overload protection		100%-125% load: 10	min., 125%-150% load: 1 min.	, > 150% load: by pass					
Short circuit protection		E	lectronic short circuit protecti	on					
VoltageTHD			< 3%						
BATTERIES									
Туре		Sealed Lead Acid - Maintenance Free							
Number of batteries	14	16	18		20				
Float charging voltage	189	189 216 VDC 243 VDC 270 VDC							
End of discharge voltage	140 VDC	160 VDC	180 VDC	200					
Battery cabinet		Internal		Exte	ernal				
Battery ambient temp.			25℃						
Battery protection			Automatic circuit breaker						
Battery test			Optional						
GENERAL									
Standards			EN 62040-1, EN 62040-2						
Serial communication			Dry contacts & RS232						
Software		T-Mon UPS Managem	ent Software (3 clients, +1 se	rver management std.)					
Temperature range			0°C - 40°C						
Ventilation			Forced air cooling						
Relative humidity			< 90% (non-condensing)						
Protection degree			IP20						
Altitude			< 2000m						
Acoustic noise			< 45 dBA						
Weight without batteries (kg)	55	60	75	82	107				
Dimensions (mm) HxWxD	585x265x505	595x265x600	645x265x670	720x265x740	775x300x800				
OPTIONS									
Different input / output voltage			Please ask						
Input transformer			on transformer at the input (in						
6kVA & 7kVA		·	0.7 versions (4200W - 4900W	·					
MBS			nce Bypass Switch for comple						
Adaptors		SNMP,	MODBUS, Remote Mon. Panel	I, K5485					
Parallel operation			N+1 (up to 4 units)						





6 - 40 kVA

200 SERIES

UNINTERRUPTIBLE POWER SUPPLIES

Tescom 200 series are, True online, Double conversion UPS Systems, manufactured with the state of the art, PWM and IGBT technology, producing microprocessor controlled pure sinewave output to critical loads.

- Output isolation transformer
- Up to 91% efficiency
- Static by-pass
- LCD front panel
- 64 events memory
- RS232 and relay contacts

- Custom input and output voltage ranges
- SNMP compatible communication
- T-MON remote monitoring software
- Parallel operation up to 4 devices
- Manufactured according to EC Directive; EN62040
- 2 years warrantly





6 - 40 kVA

MODEL	XT206	XT207	XT210	XT215	XT220	XT230	XT240						
Power (kVA)	6	7,5	10	15	20	30	40						
INPUT													
Voltage			220/380 VA	AC (230/400VAC) 3P +	N + G ± 15%								
By-pass voltage			2	20/230 VAC P + N ± 1	0%								
Frequency				50Hz / 60Hz ± 5%									
OUTPUT													
Power(kW)	4,2	5,25	7	10,5	14	21	28						
Power factor		,		0,7									
Voltage				, 220/230 VAC P + N ± ⁽	<u></u>								
Frequency				50Hz (60Hz on reque									
Frequency tolerance				onized: ± 2% , free ru									
Efficiency (at 100% load)			Line Synen	Up to 90%	7 ming. = 0,E70								
Crest factor				3:1									
Overload protection		100	%-125% load: 10 min		min., > 150% load: by	, nass							
Short circuit protection		100		ronic short circuit pro		puss							
VoltageTHD				Linear load: < 3%	- CCCCIOIT								
Voltage 1115				Non linear load: < 59	6								
BATTERIES				Tron tinear toda. 4 5	•								
Туре		Sealed Lead Acid - Maintenance Free											
Number of batteries		20 30											
Float charging voltage		270 VDC 405 VDC											
End of discharge voltage		200 VDC 300 VDC											
Battery cabinet		Internal for standard time											
Battery ambient temp.		25°C											
Battery protection			Automatic c	ircuit breaker									
Battery test		Optional			Stan	dard							
GENERAL		•											
Standards			EN 62040-1	, EN 62040-2									
Maintenance bypass switch		Optional		,	Stan	dard							
Serial communication		· · · · · · · · · · · · · · · · · · ·	Dry contac	ts & RS232									
Software		T-Mon UPS Ma	nagement Software (3		anagement std.)								
Temperature range			0°C -	- 40°C	-								
Ventilation			Forced a	ir cooling									
Relative humidity			< 90% (non-	-condensing)									
Protection degree			IF	20									
Altitude			< 20	000m									
Acoustic noise		< 50 dBA			< 55	dBA							
Weight without batteries (kg)	106	110	125	130	195	217	335						
Dimensions (mm) HxWxD		950x265x740	'		1240x500x650		1390x575x820						
OPTIONS													
Different input / output voltage				Please ask									
Input transformer			Galvanic isolation tr	ansformer at the inpu	ıt (in external cabinet))							
Input power factor			Input p	ower factor correcto	r (> 0.97)								
Adaptors			SNMP, MO	DBUS, Remote Mon. I	Panel, RS485								
Parallel operation				N+1 (up to 4 units)									
						···· (ap to 4 units)							





10 - 80 kVA

300 SERIES

UNINTERRUPTIBLE POWER SUPPLIES

Tescom 300 series are, True online, Double conversion UPS Systems, manufactured with the state of the art, PWM and IGBT technology, producing microprocessor controlled pure sinewave output to critical loads.

- Output isolation transformer
- Up to 92% efficiency
- Static by-pass
- LCD front panel
- 128 events alarm memory (4000 alarms)
- RS232 and relay contacts
- Custom input and output voltage ranges

- SNMP compatible communication
- T-MON remote monitoring software
- Parallel operation up to 4 devices
- High performance at nonlinear loads
- Custom input voltage and frequency ranges
- Manufactured according to EC Directive; EN62040
- 2 years warrany





10 - 80 kVA

MODEL	XT310	XT315	XT320	XT330	XT340	XT360	XT380		
Power (kVA)	10	15	20	30	40	60	80		
INPUT			•				'		
Voltage			220/380 VA	C (230/400 VAC) 3P +	N + G ± 15%				
By-pass voltage				AC (230/400 VAC) 3P					
Input frequency				50Hz / 60Hz ± 5%					
OUTPUT									
Power (kW)	8	12	16	24	32	48	64		
Power factor	0	12	10	0.8	32	40	04		
				380/400 VAC 3P + N	<u> </u>				
Voltage Voltage stability			Delemend land v 10		: 2%, Step load: ± 5%				
					<u>.</u>				
Voltage recovery time				ter step load: max. 2!					
Frequency				50Hz (60Hz on reques					
Frequency tolerance		00.010/	Line synchro	onized: ± 2% , free ru		220/			
Efficiency (at 100% load)		89-91%			90-9	92%			
Crest factor				3:1					
Overload protection		100	0%-125% load: 10 min.			pass			
Short circuit protection			Electi	ronic short circuit pro	tection				
Voltage THD				Linear load: < 3%					
		Non linear load: < 5%							
BATTERIES									
Туре		Sealed Lead Acid - Maintenance Free							
Number of batteries		30							
Float charging voltage		405 VDC							
End of discharge voltage		300 VDC							
Battery ambient temp.		25℃							
Battery protection		Automatic circuit breaker							
Battery test			A	utomatic every 72 ho	urs				
GENERAL									
Standards			E	N 62040-1, EN 62040)-2				
Serial communication				Dry contacts & RS23					
Software		T-M	on UPS Management	Software (3 clients, +	1 server management	std.)			
Temperature range				0°C - 40°C					
Ventilation				Forced air cooling					
Relative humidity			<	90% (non-condensir	ng)				
Protection degree				IP20					
Altitude			<	2000m above sea le	vel				
Acoustic noise		< 5	6 dBA			< 6	0 dBA		
Weight without batteries (kg)	220	260	284	305	404	496	580		
Dimensions (mm) HxWxD		1150>	(505x655		1390x5	75x820	1450x720x820		
OPTIONAL									
Different input / output voltage				Please ask					
Input transformer				<u>'</u>	ıt (in external cabinet)				
Input THD					ccording to UPS range)			
			5% (with 18 p	oulse rectifier, + filter), up to 100kVA				
Input power factor			0.95 -	0.98 (with 18 pulse r	ectifier)				
Adaptors			SNMP, MOI	OBUS, Remote Mon. F	Panel, RS485				
Parallel operation				N+1 (up to 4 units)					
(*)		In 18Pu	ılse & 12Pulse applica	tions, the standard c	hassis dimensions ma	y change			





300 SERIES

UNINTERRUPTIBLE POWER SUPPLIES

Tescom 300 series are, True online, Double conversion UPS Systems, manufactured with the state of the art, PWM and IGBT technology, producing microprocessor controlled pure sinewave output to critical loads.

- Output isolation transformer
- Up to 92% efficiency
- Static by-pass
- LCD front panel
- 128 elevents alarm memory (4000 alarms)
- RS232 and relay contacts
- Custom input and output voltage ranges

- SNMP compatible communication
- T-MON remote monitoring software
- Parallel operation up to 4 devices
- High performance at nonlinear loads
- Custom input voltage and frequency ranges
- Manufactured according to EC Directive; EN62040
- 2 years warrantly





100 - 300 kVA

MODEL	XT3100	XT3120	XT3160	XT3200	XT3250	XT3300			
Power (kVA)	100	120	160	200	250	300			
INPUT			•						
Voltage			380/400 VAC 3F	P + N + G ± 15%					
By-pass voltage			380/400 VAC	3P + N ± 1%					
Input frequency			50Hz (60Hz on	request) ± 5%					
OUTPUT									
Power (kW)	80	96	128	160	200	240			
Power factor		I	0,	8					
Voltage			380/400 V	AC 3P + N					
Voltage stability		Balan	iced load: ± 1%, Unbalanc	ed load: ± 2%, Step load:	: ± 5%				
Voltage recovery time			After step loa	d: max. 25ms					
Frequency			50Hz (60Hz	on request)					
Frequency tolerance			Line synchronized: ± 29	6 , free running: ± 0,2%					
Efficiency (at 100% load)			90-9	92%					
Crest factor			3:	1					
Overload protection		100%-125%	% load: 10 min., 125%-150	0% load: 1 min., >150% lo	ad: by pass				
Short circuit protection			Electronic short	circuit protection					
VoltageTHD			Linear lo	ad: < 3%					
		Non linear load: < 5%							
BATTERIES									
Туре			Sealed Lead Acid -	Maintenance Free					
Number of batteries		3	80		3	2			
Float charging voltage		405	VDC		432	VDC			
End of discharge voltage		300 VDC 320 VDC							
Battery ambient temp.			25						
Battery protection			Automatic ci						
Battery test			Automatic ev	ery 72 hours					
GENERAL									
Standards			EN 62040-1						
Serial communication			Dry contact						
Software		T-Mon UPS	Management Software (3		ement std.)				
Temperature range			0°C -						
Ventilation			Forced ai						
Relative humidity			< %90 (non-						
Protection degree			IP?						
Altitude	CE	-ID A	< 2000m abo	ve sea level	70 JDA				
Acoustic noise	750	765	002	970	70 dBA	1370			
Weight without batteries (kg) Dimensions (mm) HxWxD		765 110x810	802 1730x11		1328 1880x15				
	1030X1	1100010	1/30X1	33,670	1000x13)UJX32J			
OPTIONAL DIFFERENCE OF THE PROPERTY OF THE PRO			DI.						
Different input / output voltage		0.1	Pleas		-l-:				
Input transformer			nic isolation transformer a	<u> </u>					
Input THDI			rith 12 pulse or 18 pulse r		range)				
			5% (with 18 pulse rectified						
Input power factor			0.95 - 0.98 (with 1	·					
Adaptors			SNMP, MODBUS, Remo						
Parallel operation		I 10D 0.15	N+1 (up to	·					
(*)		in 18Pulse & 12	Pulse applications, the s	Landard chassis dimensio	ons may change				
	4								





STS 2000 SERIES

STATIC TRANSFER SWITCHES

Tescom STS, allows instantaneous transfer of power sources to the load. If one power source so fast that the load never recognizes the transfer made.

- Increased power quality
- Increase noise reduction
- Power blackout protection
- Power redundancy
- Automatic static switching
- Remote monitoring input power sources
- Easy static and mechanical transfer to input sources

- Remote management the power events
- Power event logging
- Output current capability up tp 1000% for short time
- 19" Rack cabinet
- Hot swap option
- Manufactured according to EC Directive: EN62310
- 2 years warranty





STS 2000 SERIES

MODEL	STS2032	STS2063	STS2120				
Nominal current	32 A	63 A	120 A				
ELECTRICAL DATA							
Input voltage		220/230/240 VAC 1P + N + G					
Input voltage range		180-264 VAC (Ph-N)					
Input frequency		50Hz / 60Hz					
Input frequency range		46-54Hz (for 50Hz)					
(operation range adjustable)		56-64Hz (for 60Hz)					
Transfer type		"Break before make"					
Transfer methods available		Automatic / Manual / Remote					
Transfer control		Synchron					
		With adjustable delay (non synchron)					
		Zero current (non synchron)					
Transfer time		≤ 4 msec for synchronous sources					
		≤ 10 msec for non-synchronous sources					
Switching type		1 phase + Neutral switching (2-Poles)					
Output current crest factor		3:1					
Admissible overload		0-100% continuous					
		101-150% 1 minute					
		151-200% 10 seconds					
D. C. C.		> 200% 250 msec					
Protections	Output overload and s	chort circuit protection, Overtemperature protection	, васктеей protection				
LCD panel and mimic		Standard					
Communication		RS232 standard , RS485 optional					
TCP/IP connection		Optional					
Dry contacts Breaking current capacity (SW1,SW2)		3 programmable relay outputs					
ENVIRONMENTAL DATA		IONA					
Cooling		Forced cooling (redundant fans)					
Cooling air direction		From front to rear					
Operating temperature		0°C - 40°C					
Storage temperature		-10°C up to +50°C					
Relative humidity		90% max. (non-condensing)					
Protection degree		IP20					
		EN 62310-1, EN 62310-2					
Max. operation height		1000m. at nominal current rating					
Acoustic noise	<	50	< 52 dBA				
MECHANICAL DATA							
Weight (kg)	12	13	20				
Dimensions		lepth = 530mm	3U (19''rack),depth = 590mm				
		able = 630mm)	(hot-swappable = 630mm)				
Power cables connection	,	Clip-on terminals (on the rear panel)	, , ,				
	Cup-on terminats (on the rear pariet)						



STS 3000 - 4000 SERIES

STATIC TRANSFER SWITCHES

Tescom STS, allows instantaneous transfer of power sources to the load. If one power source fails, the STS switches to the back-up power source so fast that the load never recognizes the transfer made.

- Increased power quality
- Increased noise reduction
- Power blackout protection
- Power redundancy
- Automatic static switching
- Remote monitoring input power sources

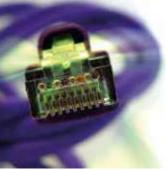
- Easy static and mechanical transfer to input sources
- Remote management the power events
- Power event logging
- \bullet Output current capability up to 100% for short time
- Manufactured according to EC Directive; EN62310
- 2 years warrantly





STS 3000 - 4000 SERIES

MODEL	STS3050	STS3100	STS3150	STS3200	STS3250	STS3300	STS3400	STS3600	STS3800
	STS4050	STS4100	STS4150	STS4200	STS4250	STS4300	STS4400	STS4600	STS4800
Nominal current	50 A	100 A	150 A	200 A	250 A	300 A	400 A	600 A	800 A
ELECTRICAL DATA									
Input voltage (Ph-Ph)				380/4	00/415 VAC 3P +	N + G			
Input voltage tolerance				18	30-264 VAC (PH-	N)			
Input frequency					50Hz / 60Hz				
Input frequency range				48-65Hz (upp	er and lower limi	ts adjustable)			
Efficiency (at 100% load)					> 99%				
Input voltage THD					< 10%				
Transfer type				"Е	Break before mak	e"			
Transfer methods available				Autom	atic / Manual / R	lemote			
Transfer control					Synchron				
				With adjus	stable delay (non	synchron)			
				Zero	current (non syn	chron			
Transfer time				< 4 msn	for synchronous	sources			
				< 10 msn fo	or non-synchrono	ous sources			
Switching type			3-Poles	: 3 phase switchi	ng / 4-Poles: 3 p	hase + Neutral s	switching		
Output current crest factor					3:1				
Admissible overload				0	-100% continuou	IS			
		101% - 150% 1 min.							
		151% - 200% 10 second							
		> 200% 250 msec							
Protections	C	Output overload	and short circuit	protection, Over	temperature pro	tection, Backfee	d protection, SO	CR fault protection	า
LCD panel and mimic					Standard				
Communication				RS232 s	tandard, RS485	optional			
TCP/IP connection					Optional				
Dry contacts				4 progr	rammable relay o	outputs			
Two serial ports					Optional				
Temperature sensor				Standard for	internal cabinet	temperature			
ENVIRONMENTAL DATA									
Cooling				Forced	cooling (redunda	nt fans)			
Operating temperature					0°C - 40°C				
Storage temperature				-	-10°C up to +50°(]			
Relative humidity				90% ı	max. (non-conder	nsing)			
Protection degree					IP20				
Standards				EN 6	62310-1, EN 623	10-2			
Acoustic noise		< 52 dBA < 55 dBA < 60 dBA							
MECHANICAL DATA									
		145	165	195	205	230	240	340	520
Weight (kg) (STS3000 Series)	139								
	139 160	175	190	205	235	240	255	375	560





SPECIAL PRODUCTS

FREQUENCY CONVERTERS

Tescom, Frequency Converters are used for converting either 50Hz, 60Hz or 400Hz, utility line power to 50Hz, 60Hz or 400Hz power to run your mission critical equipment. All Tescom solid state frequency converters use IGBT technology and are designed for continious operation.

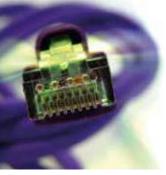
GENERAL FEATURES

- Detailed monitoring by alphanumeric LCD panel 2 microprocessors 128 long event recording with RTC
- Seperate battery supported clock and calender
- RS232 or DRY contact relays custom input voltage and frequency ranges
- 3 phase or single phase options
- SNMP communication
- 2 years warranty



INPUT	
Voltage	220/230V single phase - 380/400V 3 phase \pm 15% (other voltages; ask)
Frequency	50Hz./60Hz./400Hz. (± 5%)
OUTPUT	
Power (kW)	5kVA to 300kVA 50Hz /60Hz /400Hz
Voltage	120/208V 60/400Hz - 230/400V 50/60Hz. (other voltage ranges available)
Voltage regulation	+ 1% (balanced load) + 2% (unbalanced load)
Frequency	50/60/400Hz.
Frequency stability	+ 0,2 Hz (free running)
Efficiency	85% - 90%
Protections	Short circuit protection, overload protection, output voltage out of tolerance protection
Voltage protection	AC voltage low and high protection
Output waveform	Sinusoidal (THD < 3% for linear load)
Output power factor	0.7 (single phase) - 0.8 (three phase)







SPECIAL PRODUCTS

INVERTERS

Tescom, pure sinewave inverters (192VDC to 400VDC) provide premium power that is identical to or even better than power supplied by your electric company. They produce low distortion sinus waveform output to your mission critical equipment.

GENERAL FEATURES

- Detailed monitoring by alphanumeric LCD panel 2 microprocessors 128 long event recording with RTC
- Seperate battery supported clock and calender
- RS232 or DRY contact relays custom input voltage and frequency ranges
- 3 phase or single phase options
- SNMP communication
- 2 years warranty



INPUT	
Voltage	192 VDC - 400 VDC
OUTPUT	
Power (kW)	10kVA - 300kVA
Voltage	120/208 V, 60/400 Hz - 230/400V, 50Hz / 60Hz (other voltage ranges available)
Voltage regulation	+ 1% (balanced load) + 2% (unbalanced load)
Frequency	50Hz / 60Hz / 400Hz
Frequency stability	+ 0,2Hz (free running)
Efficiency	85% - 90%
Overcurrent protection	Electronic protection
Voltage protection	AC voltage low and high protection
Output waveform	Sinusoidal (THD < 3% for linear load)
Load power factor	0.8
GENERAL	
Power module	IGBT or IPM module
Front panel	Alphanumeric LCD 2x16 characters
Control buttons	3 or 5 buttons
Bypass	Available as option
Bypass isolation	Available as option
Parallel operation	Available as option (up to 4 devices)
Alarm buzzer	Available
Remote REPO input	Available
RS232 interface	Available
Dry contact outputs	Available
DC input protection	3 level alarms





T-MON SOFTWARES

Power failures and abnormal supply conditions can occur at any time, including when your network system is running unattended. When there is a power interruption, the UPS Software broadcasts a warning message to all Workstation users on the network urging them to finish their current tasks. In the event of a lengthy power failure, the software automatically saves files and gracefully shuts downthe operating system after a user-configured time period or when the UPS batteries are low on energy. The intelligent software can even notify an off-site systems administrator of the shutdown by paging them through a modem.

T-MON UPS Software provides other useful management functions too, such as scheduling automatic system boot up and shutdown, monitoring UPS battery condition and logging and analysing abnormal utility power conditions.

T-MON SERVER

Supports all Windows operated systems plus Linux. T-MON Server connects a computer to the UPS and collects data when it communicates to the network.

T-MON SERCON

SerCon receives data from T-MON Server and manages the shutdown event on the network clients computers. In addition to the norman "SerCon" automatic shutdown program T-MON also provides source codes so that a programmer can complie their own requirements.













T-MON SOFTWARES

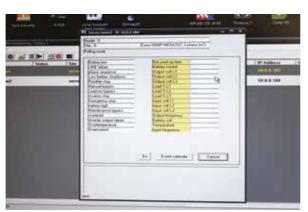
T-MON ADMIN

T-MON Admin is developed to provide UPS management and monitoring in a WAN system. It supports TCP/IP and SNMP protocols. T-MON Admin allows you to manage monitor and collect all the data logs from hundreds of UPS's which are connected to WAN system.

T-MON Admin supports multi SNMP agents such as Megatec SNMP, Netagent II and USHA. It's possible to implant OEM SNMP agents MIB's as a customer request.











i-com Series UPS Accessories

Model: RMP-X1



UPS remote monitoring panel

- Touchscreen TFT display
- RS485 input port (for long distance)
- RS232 input port
- RS232 output port + dry contact port
- Emergency stop input
- Functional desktop and wall-mount design

Model: US-4 & US-8



UPS multiserver shutdown unit (Dry contact multiplexer)

- RS232 input port
- RS232 output
- 4 or 8 multiplexed dry contact output

Model: ML100



Serial port multiplexer for UPS and STS

- RS232 input port
- 2 x DB9 type socket RS232 outputs
- External or internal

Model: ML200



Internal Serial port multiplexer for UPS and STS

- RS232 input port
- DB9 type socket RS232 output
- RJ45 Ethernet output (TCP/IP)







i-com Series UPS Accessories

Model: SNMP



External SNMP adaptor for UPS

- WEB based monitoring & management
- SNMP management
- Multi server shutdown
- Multi UPS monitoring

Model: RSX24



External RS232 to RS485 converter for UPS and STS

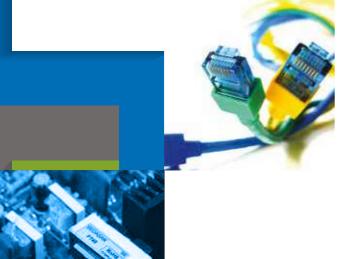
- For long distance communication
- Bi-directional operation
- 4 wire RS485 output (Half & full duplex)

Model: RS-NET



External RS232 to TCP/IP converter for UPS and STS

• Monitoring & management over TCP/IP



i-com Series UPS Accessories

Model: MDX2



External MODBUS over RS485 adaptor for UPS and STS $\,$

- For SCADA and BMS connection
- MODBUS RTU protocol
- 2 wire RS485 output
- 8 bit hardware addressable

Model: MDX-NET



External MODBUS over TCP/IP adaptor for UPS and STS

- For SCADA and BMS connection
- MODBUS TCP protocol
- RJ45 Ethernet output
- 8 bit hardware addressable

Model: GM-1



External GSM modem for UPS

- For SMS option
- SNMP compability
- Control via AT commands
- Configuration by the SNMP web interface
- Push-push SIM card installation







i-com Series UPS Accessories

Model: GM-2



External GSM / GPRS modem for UPS

- SMS option
- \bullet Monitoring & management via GPRS and SMS
- Directly UPS connection
- Smart modem
- Push-push SIM card installation
- Easy configuration by the Utility PC software

Model: GM-3



External GSM / GPRS modem for UPS with Internal battery unit

- SMS option
- Monitoring & management via GPRS and SMS
- Directly UPS connection
- Smart modem
- Push-push SIM card installation
- Easy configuration by the Utility PC software
- Uninterruptible communication with internal battery

Model: GMB1



External Battery Unit for GM-2 Modem

• This unit is the external battery bank for GM-2 modem.



Notes





UNINTERRUPTIBLE POWER SUPPLIES

HEADQUARTERS

Tescom Elektronik San. Ve Tic. A.ş. Dudullu OSB Mah. 2 Cad. Fabrikalar Sit. No:7 Ümraniye / İSTANBUL Tel: +90 (216) 977 77 70 pbx Fax: +90 (216) 527 28 18

FACTORY

Tescom Elektronik San. Ve Tic. Aş.

10009 Sokak No:1, Sanayi Sitesi
Ulukent - Menemen / İZMİR / TÜRKİYE
Tel: +90 (232) 833 36 00 pbx
Fax: +90 (232) 833 37 87
www.tescom-ups.com
international@tescom-ups.com

GREECE OFFICE

7 Volou, 18346 Moschato ATHENS / GREECE Tel: +30 21095 90 910 Fax: +30 21095 90 080 www.tescom-ups.gr info@tescom-ups.gr

