



Your reliable partner for
uninterruptible power

 **Tescom[®]**
UNINTERRUPTIBLE POWER SUPPLIES



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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 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 developments and

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.





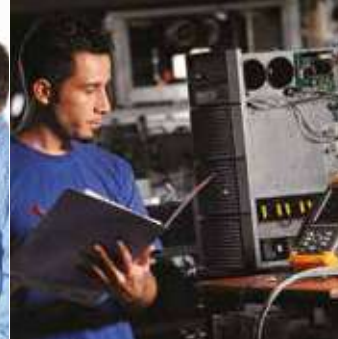
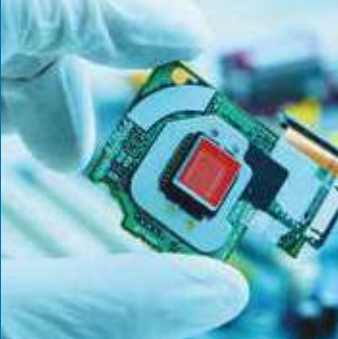
R&D

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 latest technological
relations with the international developments in the market and
suppliers, Tescom has always detect the customer demands,
been a company using and then create and launch a
applying the latest technology product accordingly.
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*



650 - 2000 VA

LEO SERIES

UNINTERRUPTIBLE POWER SUPPLIES

Line - interactive

GENERAL SPECIFICATIONS

- 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
- 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 220/230/240 VAC				
Voltage range		81 - 245 VAC* / 162 - 290 VAC				
Frequency range		50Hz / 60Hz (auto sensing)				
OUTPUT						
Output voltage		110/120 VAC* or 220/230/240 VAC				
AC voltage regulation (batt. mode)		± 10%				
Frequency range (batt. mode)		50Hz / 60Hz ± 1Hz				
Transfer time		Typical 2-6 ms				
Waveform (batt. mode)		Simulated Sinewave				
Output type		2*Schuko	2*Schuko	4*Schuko	4*Schuko	4*Schuko
BATTERY						
Battery type & number		12V / 7Ah x 1	12V / 9Ah x 1	12V / 7Ah x 2	12V / 9Ah x 2	
Typical recharge time		4-6 hours recover to 90% capacity				
INDICATORS						
LCD display		Input voltage, output voltage, battery capacity, load level and UPS status				
LED display	AC Mode	Green lighting				
	Battery Mode	Green flashing			Yellow flashing	
	Fault	-			Red flashing	
PROTECTION						
Full protection		Overload, discharge and overcharge protection				
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	142x101x300			182x130x320	
	Net weight (kg)	4.4	5	8.2	10.4	10.6
LED display	Dimension (mm) HxWxD	142x101x279			182x130x320	
	Net weight (kg)	4.2	4.9	8.2	10.4	10.6
ENVIRONMENT						
Communication types		LED model RS232, RJ11 LCD model RS232, RJ11, USB Port+View Power CD				
Humidity		0 - 90% RH @ 0°C - 40°C (non-condensing)				
Acoustic noise		< 40 dBA				

* 110/120VAC system is only available for 650/850VA and production will be upon order.



1 - 10 kVA

TEOS 100 SERIES

UNINTERRUPTIBLE POWER SUPPLIES

1 phase in / 1 phase out

GENERAL SPECIFICATIONS

- 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				
Capacity		1000 VA / 900 W	2000 VA / 1800 W	3000 VA / 2700 W	6000 VA / 5400 W	10000 VA / 9000 W
INPUT						
Nominal voltage		100/110/115/120/127VAC veya 200/208/220/230/240VAC			208/220/230/240VAC	
Input voltage range		60-150VAC or 120-300VAC (Based on load at 50%) 90-140VAC or 180-280VAC (Based on load at 100%)			110-300 AC (Based on load at 50%) 176-300VAC (Based on load at 100%)	
Frequency range		40Hz ~ 70 Hz			46~54 Hz or 56~64 Hz	
Power factor		≥ 0.99 @ Nominal Voltage (100% load)				
OUTPUT						
Voltage		100/110/115/120/127VAC or 200/208/220/230/240VAC			208/220/230/240VAC	
Voltage tolerance		± 1%				
Frequency range (Synchronized Range)		47~ 53 Hz or 57 ~ 63 Hz			46~54 Hz or 56~64 Hz	
Frequency range (Batt. Mode)		50 Hz or 60Hz ± 0.5%			50 Hz or 60Hz ± 0.1 Hz	
Crest factor		3:1				
Voltage THD		≤ %3 THD (linear load) ≤ %6 THD (non-linear load)			≤ %3 THD (linear load) ≤ %5 THD (non-linear load)	
Transfer Time	AC mode → batt. mode	Zero				
	Inverter → bypass	4 ms			Zero	
Waveform (Batt. mode)		Pure sinewave				
EFFICIENCY						
AC mode		88%	89%	90%	92%	93%
Battery mode		83%	85%	88%	90%	91%
BATTERY						
Standard model	Battery type	12V / 9AH			12V / 7AH	12V / 9AH
	Number	2	4	6	16	
	Typical recharge time	4 hours recover to 90% capacity			9 hours recover to 90% capacity	
	Charging current (max.)	1.0 A			1A/2A (Adjustable)	
	Charging voltage	27.4VDC ± 1%	54.7 VDC ± 1%	82.1 VDC ± 1%	218.4 VDC ± 1%	
Long-run model	Battery type	N/A			Depending on the capacity of external batteries	
	Number				16 ~ 20 (Adjustable)	
	Charging current (max.)				1A/2A/4A/6A (Adjustable, 6A is only available for 16pcs batts.)	
	Charging voltage				273 VDC ±1% (Based on 20pcs batteries)	
INDICATORS						
LCD		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators				
ALARM						
Battery mode		Sounding every 4 seconds				
Low battery		Sounding every second				
Overload		Sounding twice every second				
Fault		Continously sounding				
PHYSICAL						
Standard model	Dimension, HxWxD (mm)	220x145x282	220x145x397	318x190x421	688x190x369	688x190x442
	Net weight (kg)	9.8	17	27.6	61	66
Long-run model	Dimension, HxWxD (mm)	N/A			318x190x369	318x190x442
	Net weight (kg)				12	16
ENVIRONMENT						
Humidity		20%-90 RH @ 0- 40°C (non-condensing)			0%-95 RH @ 0-40°C (non-condensing)	
Acoustic noise		< 50dBA @ 1m			< 55dBA @ 1m	< 58dBA @ 1m
MANAGEMENT						
Smart RS-232/USB		Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC				
Optional SNMP		Power management from SNMP manager and web browser				



1 - 10 kVA

TEOS 100 XL SERIES

UNINTERRUPTIBLE POWER SUPPLIES

1 phase in / 1 phase out

GENERAL SPECIFICATIONS

- 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 1000 XL		Teos 2000 XL		Teos 3000 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		100/110/115/120/127VAC or 200/208/220/230/240VAC						208/220/230/240VAC			
Input voltage range		60-150 VAC or 120-300 VAC (Based on load at 50%)						110-300 VAC (Based on load at 50%)			
		90-140 VAC or 180-280 VAC (Based on load at 100%)						176-300 VAC (Based on load at 100%)			
Frequency range		40Hz ~ 70 Hz						46~54 Hz or 56~64 Hz			
Power factor		≥ 0.99 @ Nominal Voltage (100% load)									
OUTPUT											
Power factor		0,8						0,9			
Voltage		100/110/115/120/127VAC or 200/208/220/230/240VAC						208/220/230/240VAC			
Voltage regulation		± 1%									
Frequency range		47~ 53 Hz or 57 ~ 63 Hz (Synchronized Range)						46~54 Hz or 56~64 Hz (Synchronized Range)			
Frequency range		50 Hz or 60Hz ± 0.5% (Batt. Mode)						50 Hz or 60Hz ± 0.1 Hz (Batt. Mode)			
Crest factor		3:1 (max.)									
Voltage THD		≤ 3% THD (linear load)						≤ 3% THD (linear load)			
		≤ 6% THD (non-linear load)						≤ 5% THD (non-linear load)			
Transfer süresi	AC mod → Batt. mod	Zero									
	Inverter → bypass	4 ms						Sıfır			
Waveform (batt. mode)		Pure Sinewave									
EFFICIENCY											
AC mode		88%		89%		90%		92%		93%	
Battery mode		83%		85%		88%		90%		91%	
BATTERY											
Battery type		Depending on the applications									
Numbers		2		4		6		16-20 (adjustable)			
Typical recgahrge time		4 hour recover to 90% capacity						9 hour recover to 90% capacity			
Charging current		1A/2A/4A/6A (adjustable)						1A/2A/4A/6A (adjustable, only for 6A 16 pcs batt. configuration)			
Charging voltage		27.4VDC ± 1%	41.9VDC ± 1%	54.7VDC±1%	82.1VDC±1%	109.4VDC ± 1%	82.1 VDC±1%	109.4VDC ± 1%	273 VDC ± 1% (according to 20 batt.-powered configuration)		
INDICATORS											
LCD		Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators									
ALARM											
Battery mode		Sounding every 4 seconds									
Low battery		Sounding every second									
Overload		Sounding twice every second									
Fault		Continously sounding									
PHYSICAL											
Dimension HxWxD (mm)		220x145x282		220x145x397				318x190x369		318x190x442	
Net weight (kg)		4.1		6.8		7.4		12		16	
ENVIRONMENT											
Humidity		20-90% RH @ 0- 40°C (non-condensing)						0-95% RH @ 0-40°C (non-condensing)			
Acoustic noise		< 50dBA @ 1 meter						< 55dBA @ 1 meter		< 58dBA @ 1 meter	
MANAGEMENT											
Smart RS-232/USB		Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC									
Optional SNMP		Power management from SNMP manager and web browser									



1 - 10 kVA

TEOS RT SERIES

UNINTERRUPTIBLE POWER SUPPLIES

1 phase in / 1 phase out

GENERAL SPECIFICATIONS

- 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 106RT		Teos 110RT	
Phase		Single phase with ground						
Capacity		1000 VA / 900 W	2000 VA / 1800 W	3000 VA / 2700 W	6000 VA / 5400 W		10000 VA / 9000 W	
INPUT								
Nominal voltage		110/115/120/127VAC or 208/220/230/240VAC				208/220/230/240VAC		
Input voltage range		60-145 VAC or 120-300 VAC at 50% load 90-145 VAC or 180-300 VAC at 100% load				110-300 VAC (Based on load at 50%) 176-300 VAC (Based on load at 100%)		
Frequency range		40Hz ~ 70 Hz				46Hz ~ 54 Hz or 56Hz ~ 64Hz		
Power factor		≥ 0.99 @ Nominal Voltage (100% load)						
OUTPUT								
Output voltage		110/115/120/127VAC or 208/220/230/240VAC				208/220/230/240VAC		
Voltage regulation		± 1%						
Frequency range (synchronized range)		47~ 53Hz or 57 ~ 63Hz				46Hz ~ 54Hz or 56Hz ~ 64Hz		
Frequency range (battery mode)		50Hz ± 0.25Hz or 60Hz ± 0.3Hz				50Hz ± 0.1Hz or 60Hz ± 0.1Hz		
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 Time	AC Mode to batt. mode	Zero				0ms		
	Inverter to bypass	4 ms (Typical)				0ms		
Waveform (Batt. mode)		Pure Sinewave						
EFFICIENCY								
AC mode		88%	89%	90%	92%		93%	
Battery mode		83%	87%	88%	90%		91%	
BATTERY								
Battery type		12V / 9AH						
Numbers		2	4	6	16	20	16	20
Typical recharge time		4 hours recover to 90% capacity				9 hours recover to 90% capacity		
Charging current (max.)		1.0A				1A/2A (Adjustable)		
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, AC mode, Battery mode, Bypass mode, and Fault indicators						
ALARM								
Battery mode		Sounding every 4 seconds						
Low battery		Sounding every second						
Overload		Sounding twice every second						
Fault		Continously sounding						
PHYSICAL								
Dimension, HxWxD (mm)		88x438x310	88x438x410	88x438x630	UPS Unit: [2U]88x438x500 Battery Pack: [2U]88x438x668	UPS Unit: [2U]88x438x500 Battery Pack: [3U]133x438x580	UPS Unit: [3U]133x438x580 Battery Pack: [3U]133x438x580	UPS Unit: [3U]133x438x580 Battery Pack: [3U]133x438x580
Net Weight (kg)		12	19	29.3	UPS Unit: 15 Batt. Pack: 48	UPS Unit: 15 Batt. Pack: 61	UPS Unit: 18 Batt. Pack: 51	UPS Unit: 18 Batt. Pack: 61
ENVIRONMENT								
Humidity		20-90 % RH @ 0- 40°C (non-condensing)				0-95 % RH @ 0- 40°C (non-condensing)		
Noise level		Less than 50dBA @ 1m				Less than 55dBA @ 1m		Less than 58dBA @ 1m
MANAGEMENT								
Smart RS-232/USB		Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC						
Optional SNMP		Power management from SNMP manager and web browser						



10 - 20 kVA

TEOS 200 SERIES

UNINTERRUPTIBLE POWER SUPPLIES

3 phase in / 1 phase out

GENERAL SPECIFICATIONS

- 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 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-Phase) @ 50% load 305-520VAC (3-Phase) @ 100% load					
Frequency range		46Hz ~ 54Hz					
OUTPUT							
Output voltage		208/220/230/240VAC					
AC Voltage regulation		± 1% (batt. mode)					
Frequency range		46 ~ 54Hz (synchronized range)					
Frequency range		50Hz ± 0.1Hz (batt. mode)					
Current crest ratio		3:1 (max)					
Harmonic distortion		≤ 3 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)					
Transfer Time	AC Mode to batt. mode	Zero					
	Inverter to bypass	Zero					
Waveform (Batt. mode)		Pure Sinewave					
EFFICIENCY							
AC mode		91%					
Battery mode		91%					
BATTERY							
Standard Model	Battery type	12V / 9AH					
	Numbers	16 pcs	20 pcs	16 pcs	20 pcs	16 pcs x 2 strings	20 pcs x 2 strings
	Typical recharge time	9 hours recover to 90% capacity					
	Charging current (max.)	1A ± 10%				1A/2A/4A ± 10% (2A default))	
	Charging voltage	218.4 VDC ± 1%	273 VDC ±1%	218.4 VDC ±1%	273 VDC ±1%	218.4 ±1%	273 ±1%
Long-run Model	Battery type	Depending on the capacity of external batteries					
	Numbers	16 pcs	20 pcs	16 pcs	20 pcs	16 pcs	20 pcs
	Charging current (max.)	4A Default, 1A/2A/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/Output voltage, Discharge timer, and Fault conditions					
ALARM							
Battery mode		Sounding every 4 seconds					
Low battery		Sounding every second					
Overload		Sounding twice every second					
Fault		Continously sounding					
PHYSICAL							
Standard Model	Dimension HxWxD (mm)	688x190x422				826x250x815	
	Net Weight (kg)	66	76	67	78	125	145
Long-run Model	Dimension HxWxD (mm)	318x190x442				318x190x575	
	Net Weight (kg)	15		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/XP/Vista/2008, 7/8, Linux and MAC					
Optional SNMP		Power management from SNMP manager and web browser					



10 - 80 kVA

TEOS 300 SERIES

UNINTERRUPTIBLE POWER SUPPLIES

3 phase in / 3 phase out

GENERAL SPECIFICATIONS

- 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 units in parallel					
INPUT							
Nominal voltage		3 x 400VAC (3Ph+N)					
Input voltage range		190-520VAC (3-Phase) @ 50% load 305-478VAC (3-Phase) @ 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)					
AC Voltage regulation		± 1% (batt. mode)					
Frequency range		46~54Hz or 56~64Hz (synchronized range)					
Frequency range		50Hz ± 0.1Hz or 60Hz ± 0.1Hz (batt. mode)					
Current crest ratio		3:1 (max)					
Harmonic distortion		≤ 2 % THD (Linear Load) ≤ 5 % THD (Non-linear Load)					
Transfer Time	AC Mode to batt. mode	Zero					
	Inverter to bypass	Zero					
Waveform (Batt. mode)		Pure Sinewave					
Overload	AC mode	100-110% for 60 min, 110-125% for 10 min, >150% immediately					
	Battery mode	100-110% for 60 min, 110-125% for 10 min, >150% immediately					
EFFICIENCY							
AC mode		95.5%					
Eco mode		98.5%					
Battery mode		94.5%					
BATTERY							
Long-run Model	Battery type	Depending on the applications					
	Numbers	20 pcs	32~40 pcs (Adjustable)				
	Charging current (max.)	12A				24A	
	Charging voltage	± 136.5 VDC ± 10%	± 13.65V x N (N=16~20)				
INDICATORS							
LCD panel		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions					
PHYSICAL							
Long-run Model	Dimension HxWxD (mm)	750x250x626		1000x300x815		1010x360x790	
	Net Weight (kg)	28	43	60	61	108	113
ENVIRONMENT							
Operating temperature		0~40°C					
Operating humidity		< 95% and non-condersing					
Acoustic noise		< 55dB @ 1 Meter	< 58dB @ 1 Meter	< 65dB @ 1 Meter	< 70dB @ 1 Meter		< 75dB @ 1 Meter
MANAGEMENT							
Smart RS-232/USB		Supports Windows® 2000/2003/XP/Vista/2008, 7/8, Linux and MAC					
Optional SNMP		Power management from SNMP manager and web browser					

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

3 phase in / 3 phase out



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 impeding 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.

GENERAL SPECIFICATIONS

- 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 calendar (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
- Full digital structure
- Fewer electronic components
- Output current limiting
- Advanced diagnostics for the input
- Selectable input/output voltage/frequency range
- Output DC leakage protection
- 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

MODEL	DS310SH	DS315SH	DS320SH
Power (kVA)	10	15	20
INPUT			
Voltage	380/400 VAC 3P + N + G ± 20% (415VAC +15%, -25% optional)		
Frequency	50Hz / 60Hz, ± 5%		
Power factor (at 100% load)	≥ 0.99		
THDI (at 100% load)	≤ 4% (depends on mains input conditions)		
By-pass voltage	380/400 VAC 3P + N , 4 Wires, ± 10%		
Voltage distortion	≤ 10%		
Protection	Fuses, Voltage & Frequency Tolerance		
OUTPUT			
Power (kW)	9	13,5	18
Power factor	0,9 (1 optional)	0,9 (0,8 and 1 optional)	
Voltage	380/400 VAC 3P + N , ± 1% (415 VAC optional)		
Frequency	50Hz / 60Hz		
Frequency tolerance	Line synchronized: ± 2% / Free running: ± 0,1%		
Efficiency (at 100% load)	94%		
Crest factor	3:1		
Overload protection	100% - 125% load: 10 min, 125% - 150% load: 1 min, - > 150% load: by pass		
Protection	Fuses,Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting		
Voltage THD	< 2% (at 100% linear load)		
BATTERIES			
Type	VRLA AGM / GEL / NiCd		
Number of batteries	60 (± 30) batteries		
Float charging voltage	± 405 VDC (adjustable)		
End of discharge voltage	± 300 VDC (adjustable)		
Battery cabinet	External (attached cabinet at the bottom of UPS)		
Battery ambient temperature	25°C		
Battery protection	3 level alarms, Battery fuses, Charging current limit, Temperature compensation (optional)		
Automatic battery test	Standard: every 72 hours (adjustable)		
GENERAL			
Standards	EN62040-1, EN62040-2, EN62040-3		
User interface	4 lines 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	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	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			
Different input / output voltage	Please ask		
Adaptors	SNMP, MODBUS, RS485, Remote panel		
Software	T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 50-100-200 clients		



10 - 100 kVA

DS POWER H SERIES

UNINTERRUPTIBLE POWER SUPPLIES

3 phase in / 3 phase out

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 impeding 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.

GENERAL SPECIFICATIONS

- 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 calendar (battery supported)
- Automatic battery test, remaining battery time indicator
- Temperature compensated 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 VAC 3P + N + G ± 20% (at 100% load) / - 40% (at 70% 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	≤ 10%							
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequence indicator							
OUTPUT								
Power (kW)	9	13,5	18	27	36	54	72	90
Power factor	0,9 (0,8 and 1 optional)							
Voltage	380/400 VAC 3P + N, ± 1% (415 VAC optional)							
Frequency	50Hz / 60Hz							
Frequency tolerance	Line synchronized: ± 2% (adjustable) / Free running: ± 0,1%							
Efficiency	up to 95%							
Crest factor	3:1							
Overload protection	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								
Type	VRLA AGM / GEL / NiCd							
Number of batteries	2x30 (±30): 60 pieces							
Charge voltage	2x405 VDC							
End of discharge voltage	2x300 VDC							
Battery cabinet	Internal							
Battery ambient temperature	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, EN62040-2, EN62040-3							
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 8 optional DRY contact alarm relays							
Inputs	EPO input, Interactive battery panel input, Genset 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							
Protections	Power module over-temperature, Overcurrent, 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	< 57dBA				< 62dBA			< 65dBA
Weight without batteries (kg)	87	87	91	100	173	197	209	220
Dimensions (mm) HxWxD	1040x400x815				1440x515x855			
OPTIONS								
Different input / output voltage	Please ask							
Transformer	Galvanic isolation transformer 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 units							

(*) Depending on power and input/output conditions



300 - 400 kVA

DS POWER H SERIES

UNINTERRUPTIBLE POWER SUPPLIES

3 phase in / 3 phase out

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 impeding 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.

GENERAL SPECIFICATIONS

- 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 calendar (battery supported)
- Automatic battery test, remaining battery time indicator
- Temperature compensated 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





300 - 400 kVA

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 / 60Hz, ± 5%	
Power factor	≥ 0.99 (at 100% load)	
(THDI) (*)	≤ 3%	
By-pass voltage	380/400 VAC 3 Phase + N, ± 10%	
Voltage distortion	≤ 10%	
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequence indicator	
OUTPUT		
Power (kW)	270	360
Power factor	0,9 (0,8 and 1 optional)	
Voltage	380/400 VAC 3P + N, ± 1% (415 VAC optional)	
Frequency	50Hz / 60Hz	
Frequency tolerance	Line synchronized: ± 2% (adjustable) / Free running: ± 0,1%	
Efficiency	up to 95%	
Crest factor	3:1	
Overload protection	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		
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	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, EN62040-2, EN62040-3	
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 8 optional DRY contact alarm relays	
Inputs	EPO input, Interactive battery panel input, Genset 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	
Protections	Power module over-temperature, Overcurrent, 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	< 68dBA	
Weight without batteries (kg)	635	680
Dimensions (mm) HxWxD	1900x1250x775	
OPTIONS		
Different input / output voltage	Please ask	
Transformer	Galvanic isolation transformer 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 units	

(*) Depending on power and input/output conditions



100 - 400 kVA

DS POWER X SERIES

UNINTERRUPTIBLE POWER SUPPLIES

3 phase in / 3 phase out

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 impeding 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.

GENERAL SPECIFICATIONS

- 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 calendar (battery supported)
- Automatic battery test, remaining battery time indicator
- Temperature compensated 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 features
- Manufactured according to EC Directive; EN62040
- 2 years warranty





100 - 400 kVA

TECHNICAL SPECIFICATIONS

MODEL	DX3100	DX3120	DX3160	DX3200	DX3250	DX3300	DX3400
Power (kVA)	100	120	160	200	250	300	400
INPUT					Ask for availability		
Voltage	380/400 VAC 3P + N + G ± 20% (at 100% load) / - 40% (at 70% load)						
Frequency	50Hz / 60Hz, ± 10%						
Power factor (at 100% load)	≥ 0.99						
THDI (*)	≤ 3%						
By-pass voltage	380/400 VAC 3 Phase + N, ± 10 (adjustable)						
Input voltage THD	≤ 10%						
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator						
OUTPUT							
Power (kW)	100	120	160	200	250	300	400
Power factor	1.0						
Voltage	380/400 VAC 3P + N, ± 1% (415 VAC optional)						
Frequency	50Hz / 60Hz						
Frequency tolerance	Line synchronized: ± 2% (adjustable) / Free running: ± 0,1%						
Efficiency	up to 95.5%		up to 96%				
Crest factor	3:1						
Overload protection	at 100% - 125% load : 10 min. - at 125% - 150% load :1 min. - > at 150% load : by-pass						
Other protections	Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting						
Voltage THD	≤ 2% (at 100% linear load)						
BATTERY							
Type	VRLA AGM / GEL / NiCd						
Nominal voltage	± 240 VDC / ± 360 VDC						
Float / End of discharge voltage	± 405 VDC / ± 300 VDC						
Battery cabinet	External						
Battery ambient temperature	25°C						
Protections	3 level alarms, Battery fuses, Charging current limit, Temperature compensation (optional)						
Battery test	Standard every 72 hours (adjustable)						
GENERAL							
Standards	EN62040-1, EN62040-2, EN62040-3						
User interface	5 vector buttons, Buzzer, 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	EPO input, Interactive battery panel input, Genset 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						
Protections	Power module over-temperature, Overcurrent, Temperature high alarm						
Operating temperature range	0°C - 40°C						
Protection degree	IP20						
Relative humidity	90% max. (non-condensing)						
Altitude	< 1000m above sea level						
Acoustic noise	< 62 dBA		< 65 dBA		Please ask		
Weight without batteries (kg)	210	220	262	270			
Dimensions (mm) HxWxD	1440x475x890						
OPTIONS							
Different input / output voltage	Please ask						
Transformer	Galvanic isolation transformer at the input & output (external)						
Software	T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 10-50-100-200 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						

(*) Depending on power and input/output conditions



120 - 250 kVA

DS POWER XL SERIES

UNINTERRUPTIBLE POWER SUPPLIES

3 phase in / 3 phase out

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 impeding 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.

GENERAL SPECIFICATIONS

- 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 calendar (battery supported)
- Automatic battery test, remaining battery time indicator
- Temperature compensated 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 features
- Manufactured according to EC Directive; EN62040
- 2 years warranty





120 - 250 kVA

TECHNICAL SPECIFICATIONS

MODEL	DXL3120	DXL3160	DXL3200	DXL3250
Power (kVA)	120	160	200	250
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%			
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequency indicator			
OUTPUT				
Power (kW)	108	144	180	225
Power factor	0,9			
Voltage	380/400 VAC 3P + N, ± 1% (415 VAC optional)			
Frequency	50Hz / 60Hz			
Frequency tolerance	Line synchronized: ± 2% (adjustable) / Free running: ± 0,1%			
Efficiency	up to 95.5%		up to 96%	
Crest factor	3:1			
Overload protection	at 100% - 125% load : 10 min. - at 125% - 150% load :1 min. - > at 150% load : by-pass			
Other protections	Advanced short circuit, Voltage tolerance, DC balance, Regenerative load, Current limiting			
Voltage THD	≤ 2% (at 100% linear load)			
BATTERY				
Type	VRLA AGM / GEL / NiCd			
Nominal voltage	± 360 VDC			
Float / End of discharge voltage	± 405 VDC / ± 300 VDC			
Battery cabinet	External			
Battery ambient temperature	25°C			
Protections	3 level alarms, Battery fuses, Charging current limit, Temperature compensation (optional)			
Battery test	Standard every 72 hours (adjustable)			
GENERAL				
Standards	EN62040-1, EN62040-2, EN62040-3			
User interface	5 vector buttons, Buzzer, 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	EPO input, Interactive battery panel input, Genset 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			
Protections	Power module over-temperature, Overcurrent, Temperature high alarm			
Operating temperature range	0°C - 40°C			
Protection degree	IP20			
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	Please ask			
Transformer	Galvanic isolation transformer at the input & output (external)			
Software	T-Mon Admin Multi UPS monitoring 10-50-100-200 clients, T-Mon Server 10-50-100-200 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			

(*) Depending on power and input/output conditions



400 - 600 kW

DS POWER SERIES

UNINTERRUPTIBLE POWER SUPPLIES

3 phase in / 3 phase out

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 impeding 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.

GENERAL SPECIFICATIONS

- 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 calendar (battery supported)
- Automatic battery test, remaining battery time indicator
- Temperature compensated 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 features
- 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			
Voltage	380/400 VAC 3P + N + G ± 20% (415 VAC +15%, - 25% optional)		
Frequency	50Hz / 60Hz , ± 5%		
Power factor (at 100% load)	≥ 0.99		
(THDI) (*)	≤ 3%		
By-pass voltage	380/400 VAC 3P + N , 4 Wires, ± 10%		
Voltage distortion	≤ 10%		
Protection	Fuses, Voltage & Frequency tolerance, Input power limit,Phase sequency indicator		
OUTPUT			
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	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			
Type	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°C		
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-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	EPO input, Interactive battery panel input, Genset 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		
Protections	Power module 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		

(*) Depending on power and input/output conditions



10 - 400 kVA

DS POWER 300HT SERIES

UNINTERRUPTIBLE POWER SUPPLIES

3 phase in / 3 phase out

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 impeding 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.

GENERAL SPECIFICATIONS

- 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 compensated 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





10 - 400 kVA

TECHNICAL SPECIFICATIONS

MODEL	DS310HT	DS315HT	DS320HT	DS330HT	DS340HT	DS360HT	DS380HT	DS3100HT	DS3120HT	DS3160HT	DS3200HT	DS3250HT	DS3300HT	DS3400HT
Power (kVA)	10	15	20	30	40	60	80	100	120	160	200	250	300	400
INPUT														
Voltage	380/400 VAC 3P + N + G ± 20% (415 VAC +15%, - 25% optional)													
Frequency	50Hz / 60Hz, ± 5%													
Power factor	≥ 0.99													
(THDI) (*)	≤ 3%													
By-pass voltage	380/400 VAC 3 Phase + N , 4 Wires, ± 10%													
Voltage distortion	≤ 10%													
Protection	Fuses, Voltage & Frequency tolerance, Input power limit, Phase sequence indicator													
OUTPUT														
Power (kW)	9	13,5	18	27	36	54	72	90	108	144	180	225	270	360
Power factor	0,9													
Voltage	380/400 VAC 3 P + N , ± 1% (415 VAC optional)													
Frequency	50Hz / 60Hz													
Frequency tolerance	Line synchronized: ± 2% / Free running: ± 0,1%													
Efficiency	up to 93,5%													
Crest factor	3:1													
Overload protection	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														
Type	VRLA AGM / GEL / NiCd													
Nominal voltage	± 312 VDC (2x26 batts)													
Float / End of discharge voltage	± 351 VDC / ± 260 VDC													
Battery cabinet	External													
Battery ambient temperature	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, EN62040-2, EN62040-3													
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 8 optional DRY contact alarm relays													
Inputs	EPO input, Interactive battery panel input, Genset 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													
Protections	Power module 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	< 57 dBA		< 62 dBA			< 64 dBA		< 68 dBA			< 72 dBA			
Weight (kg)	187	198,5	244	270	393	457	536	539	595	647	910,5	1150	1283	1497
Dimensions (mm) HxWxD	1040x400x815				1440x515x855			1770x825x855				1900x1250x1055		
OPTIONS														
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													
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

1-1, 3-1, 3-3 Phase Input-Output

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 - 3/3P) 3P+N+G (380/400/415V) ~ 1P+N+G (220/230/240V)				3P+N+G (380/400/415V)		
Voltage range		304-478Vac (line-line),100% load; 228-304Vac load derated from 100% - 75% linearly						
Frequency range		40Hz-70Hz						
Power factor		>0.99						
THDi		** THDi < 4% @ 100% linear load						
OUTPUT								
Voltage		(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 regulation		1.5%						
Power factor		1						
THDu		THD < 1% (linear load),THD < 5.5% (non-linear load)						
Crest factor		3:1						
Overload capacity		110% for 1 hour; 125% for 10 min; 150% for 1 min ; 150% for 200 ms						
BATTERY								
Voltage		± 240 VDC for 40 batteries (selectable battery number 36-44)						
Charge power		20%* System power						
Charge voltage precision		±1%						
SYSTEM								
System efficiency		Normal mode: 95%; ECO mode: 98%; Battery mode: 94.5%						
Display		7.0" Color touch screen LCD + LED + Keyboard						
IP class		IP20						
Interface		Standart: RS232, RS485, dry contacts Optional: SNMP, Expansion dry contact card						
Operation / storage temp.		0-40°C/-25-70°C						
Relative humidity		0-95% (non-condensing)						
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
	Power module	15.3				15.5		
Dimension (HxWxD) mm	Cabinet	398x485x697	575x485x751	575x485x697	1033x485x751	398x485x697	575x485x751	1033x485x751
	Height	7U	11U	11U	21U	7U	11U	21U
	Power module	(2U) 85x436x590						

(*) Parallel operation
(**) Only for 3/3 phase



10 - 400 kVA

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.

GENERAL SPECIFICATIONS

- 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	MTI2120/20 - MTI2060/10	MTI2200/20 - MTI2100/10
Capacity		10 - 400kVA		
Power 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 ~ 70Hz		
OUTPUT				
Voltage		380V/400V/415V		
Voltage regulation		±1% (Balance load); ± 1.5% (unbalance load)		
Voltage THD		THD < 1.5% (linear load), THD < 6% (none linear load)		
Power factor		0.9		
Crest ratio		3:1		
Overload capability		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				
Parallel (cabinet)		6	3	2
System efficiency		Normal mode: 95%; ECO mode: 98%; Battery mode: 95%		
Display		LCD + LED, touch screen + keyboard		
IP class		IP20		
Interface (communication port)		Standard: RS232,RS485, Dry contacts, EPO / Optional: SNMP card		
Operation / storage temp.		0~40°C /-40~70°C		
Relative humidity		0~95% (non-condensing)		
Noise		55dB (1 meter away)		
PHYSICAL				
Weight (kg)	Cabinet	3-Slot cabinet:120; 6- Slot cabinet:151;10-Slot cabinet:182		
	Power module	TPM10:20kg, TPM15:21kg, TPM20:22kg		
Dimension (HxWxD) mm	Cabinet	3-Slot cabinet:1100x600x900; 6-Slot cabinet: 1600x600x900;10-Slot cabinet: 2000x600x900		
	Power module	TPM10/TPM15/TPM20: 134x440x590		

(*) Single cabinet with internal batteries

3 phase in / 3 phase out



30 - 900 kVA

MTI300 MODULAR UPS SERIES

UNINTERRUPTIBLE POWER SUPPLIES

The MTI300 Series Modular UPS provides the most compact footprint of less than 2m² 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.

GENERAL SPECIFICATIONS

- 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

TECHNICAL SPECIFICATIONS

MODEL		MTI3180/30	MTI3300/30	MTI3600/30
Capacity		30 - 900kVA	30 - 600kVA	
Power 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 according to the min phase voltage		
Frequency range		40Hz~70Hz		
OUTPUT				
Voltage		380V/400V/415V		
Voltage regulation		1.5%		
THDu		THD < 1% (linear load), THD < 6% (none linear load)		
Power factor		0.9		
Crest factor		3:1		
Overload capability		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 / storage temp.		0 ~ 40°C / -40 ~ 70°C		
Relative humidity		0 ~ 95% (non-condensing)		
Acoustic noise		65dB @100% load, 62dB @ 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
	Power module	TPM30kVA: 34		
Dimension (HxWxD) mm	Cabinet	6-Slot Cabinet: 1600x600x1100	10-Slot Cabinet: 2000x600x1100	20-Slot cabinet: 2000x2000x1050
	Power module	TPM30kVA: (3U) 134x460x790		

3 phase in / 3 phase out

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 guarantees 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

TECHNICAL SPECIFICATIONS

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	TPM50X1			
MAIN INPUT				
Grid system	3P + N + G			
Rated input voltage	380/400/415VAC			
Rated frequency	50Hz/ 60Hz			
Input voltage range	304~478Vac (Line-Line),full load 228V~304Vac (Line-Line),load decrease linearly according to the min phase voltage			
Input frequency range	40Hz / 70Hz			
Input power factor	> 0.99			
Input current THDi	< 3% @ 100% linear load			
BYPASS INPUT				
Rated bypass voltage	380/400/415VAC (Line-Line)			
Rated frequency	50/60Hz			
Bypass voltage range	"Selectable, default -20%~+15% Up limited: +10%, +15%, +20%, +25% Down limited: -10%, -15%, -20%, -30%, -40%"			
Bypass frequency range	Selectable, ±1Hz, ±3Hz, ±5Hz			
Bypass overload	125%, long time operation 125%< load <130%, last for more than 10 minutes 130%<load<150%,last for more than 1 minutes >150%, last for more than 300ms		110% Long term operation 110%~125% last for more than 5min 125%~150% last for more than 1min >150% last for more than 1s	
OUTPUT				
Rated inverter voltage	380/400/415VAC (Line-Line)			
Rated frequency	50/60Hz			
Output power factor	1			
Voltage precision	±2%			
Transient response	<5% for step load (20% - 80% -20%)			
Transient recovery	< 30ms for step load (0% - 100% -0%)			
Output voltage THDu	"<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%~150%,1min; >150%,200ms"			
Frequency Regulation	50/60Hz±0.01%			
Synchronized Range	Settable, ±0.5Hz ~ ±5Hz, default ±3Hz			
Synchronized Slew Rate	Settable, 0.5Hz/S ~ 3Hz/S, default 0.5Hz/S			
BATTERY AND CHARGER				
Battery rate voltage	±240VDC			
Charger voltage precision	1%			
Charger power	max=20% *Output power			
EFFICIENCY				
Normal Operation	>96%			
Battery Operation	>96%			
SYSTEM				
Display	LED + LCD + touch screen			
Interface	RS232, RS485, USB,Programmable dry contact		RS232, RS485, USB,Programmable dry contac	
Option	Battery cold start,SNMP,AS400,parallel kit, Lightning protection components,Dust Filter,LBS		SNMP,AS400,parallel kit,Lightning protection components, Dust Filter,LBS	
ENVIRONMENTAL				
Operation temperature	0 ~ 40 °C			
Storage temperature	-40 ~ 70 °C			
Relative humidity	0 ~ 95% Non condensing			
Noise (1 meter)	65dB @ 100% load, 62dB @ 45% load			
Altitude	<1000m, Load derated 1% 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

1 phase in / 1 phase out



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.

GENERAL SPECIFICATIONS

- 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

TECHNICAL SPECIFICATIONS

MODEL	XT103	XT105	XT107	XT110	XT115
Power (kVA)	3	5	7	10	15
INPUT					
Voltage	220/230 VAC P + N + G ± 15%				
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 synchronized: ± 2% , free running: ± 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	Electronic short circuit protection				
VoltageTHD	< 3%				
BATTERIES					
Type	Sealed Lead Acid - Maintenance Free				
Number of batteries	14	16	18	20	
Float charging voltage	189	216 VDC	243 VDC	270 VDC	
End of discharge voltage	140 VDC	160 VDC	180 VDC	200 VDC	
Battery cabinet	Internal			External	
Battery ambient temp.	25°C				
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 Management Software (3 clients, +1 server 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	Galvanic isolation transformer at the input (in external cabinet)				
6kVA & 7kVA	Previous, output PF:0.7 versions (4200W - 4900W) available on request				
MBS	Maintenance Bypass Switch for complete isolation				
Adaptors	SNMP, MODBUS, Remote Mon. Panel, RS485				
Parallel operation	N+1 (up to 4 units)				

3 phase in / 1 phase out

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.

GENERAL SPECIFICATIONS

- 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 warranty





6 - 40 kVA

TECHNICAL SPECIFICATIONS

MODEL	XT206	XT207	XT210	XT215	XT220	XT230	XT240
Power (kVA)	6	7,5	10	15	20	30	40
INPUT							
Voltage	220/380 VAC (230/400VAC) 3P + N + G ± 15%						
By-pass voltage	220/230 VAC P + N ± 10%						
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 ± %1						
Frequency	50Hz (60Hz on request)						
Frequency tolerance	Line synchronized: ± 2% , free running: ± 0,2%						
Efficiency (at 100% load)	Up to 90%						
Crest factor	3:1						
Overload protection	100%-125% load: 10 min., 125%-150% load: 1 min., > 150% load: by pass						
Short circuit protection	Electronic short circuit protection						
VoltageTHD	Linear load: < 3% Non linear load: < 5%						
BATTERIES							
Type	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 circuit breaker						
Battery test	Optional			Standard			
GENERAL							
Standards	EN 62040-1, EN 62040-2						
Maintenance bypass switch	Optional			Standard			
Serial communication	Dry contacts & RS232						
Software	T-Mon UPS Management Software (3 clients, +1 server management std.)						
Temperature range	0°C - 40°C						
Ventilation	Forced air cooling						
Relative humidity	< 90% (non-condensing)						
Protection degree	IP20						
Altitude	< 2000m						
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 transformer at the input (in external cabinet)						
Input power factor	Input power factor corrector (> 0.97)						
Adaptors	SNMP, MODBUS, Remote Mon. Panel, RS485						
Parallel operation	N+1 (up to 4 units)						

3 phase in / 3 phase out



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.

GENERAL SPECIFICATIONS

- 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 warranty





10 - 80 kVA

TECHNICAL SPECIFICATIONS

MODEL	XT310	XT315	XT320	XT330	XT340	XT360	XT380
Power (kVA)	10	15	20	30	40	60	80
INPUT							
Voltage	220/380 VAC (230/400 VAC) 3P + N + G ± 15%						
By-pass voltage	220/380 VAC (230/400 VAC) 3P + N ± 10%						
Input frequency	50Hz / 60Hz ± 5%						
OUTPUT							
Power (kW)	8	12	16	24	32	48	64
Power factor	0,8						
Voltage	380/400 VAC 3P + N						
Voltage stability	Balanced load: ± 1%, Unbalanced load: ± 2%, Step load: ± 5%						
Voltage recovery time	After step load: max. 25ms						
Frequency	50Hz (60Hz on request)						
Frequency tolerance	Line synchronized: ± 2% , free running: ± 0,2%						
Efficiency (at 100% load)	89-91%			90-92%			
Crest factor	3:1						
Overload protection	100%-125% load: 10 min., 125%-150% load: 1 min., >150% load: by pass						
Short circuit protection	Electronic short circuit protection						
Voltage THD	Linear load: < 3% Non linear load: < 5%						
BATTERIES							
Type	Sealed Lead Acid - Maintenance Free						
Number of batteries	30						
Float charging voltage	405 VDC						
End of discharge voltage	300 VDC						
Battery ambient temp.	25°C						
Battery protection	Automatic circuit breaker						
Battery test	Automatic every 72 hours						
GENERAL							
Standards	EN 62040-1, EN 62040-2						
Serial communication	Dry contacts & RS232						
Software	T-Mon UPS Management Software (3 clients, +1 server management std.)						
Temperature range	0°C - 40°C						
Ventilation	Forced air cooling						
Relative humidity	< 90% (non-condensing)						
Protection degree	IP20						
Altitude	< 2000m above sea level						
Acoustic noise	< 56 dBA					< 60 dBA	
Weight without batteries (kg)	220	260	284	305	404	496	580
Dimensions (mm) HxWxD	1150x505x655				1390x575x820		1450x720x820
OPTIONAL							
Different input / output voltage	Please ask						
Input transformer	Galvanic isolation transformer at the input (in external cabinet)						
Input THD	10% (with 12 pulse or 18 pulse rectifier, according to UPS range) 5% (with 18 pulse rectifier, + filter), up to 100kVA						
Input power factor	0.95 - 0.98 (with 18 pulse rectifier)						
Adaptors	SNMP, MODBUS, Remote Mon. Panel, RS485						
Parallel operation	N+1 (up to 4 units)						
(*)	In 18Pulse & 12Pulse applications, the standard chassis dimensions may change						

3 phase in / 3 phase out



100 - 300 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.

GENERAL SPECIFICATIONS

- 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 warranty





100 - 300 kVA

TECHNICAL SPECIFICATIONS

MODEL	XT3100	XT3120	XT3160	XT3200	XT3250	XT3300
Power (kVA)	100	120	160	200	250	300
INPUT						
Voltage	380/400 VAC 3P + 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	0,8					
Voltage	380/400 VAC 3P + N					
Voltage stability	Balanced load: ± 1%, Unbalanced load: ± 2%, Step load: ± 5%					
Voltage recovery time	After step load: max. 25ms					
Frequency	50Hz (60Hz on request)					
Frequency tolerance	Line synchronized: ± 2% , free running: ± 0,2%					
Efficiency (at 100% load)	90-92%					
Crest factor	3:1					
Overload protection	100%-125% load: 10 min., 125%-150% load: 1 min., >150% load: by pass					
Short circuit protection	Electronic short circuit protection					
VoltageTHD	Linear load: < 3% Non linear load: < 5%					
BATTERIES						
Type	Sealed Lead Acid - Maintenance Free					
Number of batteries	30				32	
Float charging voltage	405 VDC				432 VDC	
End of discharge voltage	300 VDC				320 VDC	
Battery ambient temp.	25°C					
Battery protection	Automatic circuit breaker					
Battery test	Automatic every 72 hours					
GENERAL						
Standards	EN 62040-1,EN62040-2					
Serial communication	Dry contacts & RS232					
Software	T-Mon UPS Management Software (3 clients, +1 server management std.)					
Temperature range	0°C - 40°C					
Ventilation	Forced air cooling					
Relative humidity	< %90 (non-condensing)					
Protection degree	IP20					
Altitude	< 2000m above sea level					
Acoustic noise	65 dBA		70 dBA			
Weight without batteries (kg)	750	765	802	970	1328	1370
Dimensions (mm) HxWxD	1650x1110x810		1730x1195x870		1880x1565x925	
OPTIONAL						
Different input / output voltage	Please ask					
Input transformer	Galvanic isolation transformer at the input (in external cabinet)					
Input THDI	10% (with 12 pulse or 18 pulse rectifier, according to UPS range) 5% (with 18 pulse rectifier, + filter), up to 100kVA					
Input power factor	0.95 - 0.98 (with 18 pulse rectifier)					
Adaptors	SNMP, MODBUS, Remote Mon. Panel, RS485					
Parallel operation	N+1 (up to 4 units)					
(*)	In 18Pulse & 12Pulse applications, the standard chassis dimensions may change					



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.

GENERAL SPECIFICATIONS

- 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

TECHNICAL SPECIFICATIONS

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 (operation range adjustable)	46-54Hz (for 50Hz) 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 > 200% 250 msec		
Protections	Output overload and short circuit protection, Overtemperature protection, Backfeed protection		
LCD panel and mimic	Standard		
Communication	RS232 standard , RS485 optional		
TCP/IP connection	Optional		
Dry contacts	3 programmable relay outputs		
Breaking current capacity (SW1,SW2)	10 kA		
ENVIRONMENTAL DATA			
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		
Standards	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	2U (19"rack),depth = 530mm (hot-swappable = 630mm)		3U (19"rack),depth = 590mm (hot-swappable = 630mm)
Power cables connection	Clip-on terminals (on the rear panel)		



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.

GENERAL SPECIFICATIONS

- 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
- Output current capability up to 100% for short time
- Manufactured according to EC Directive; EN62310
- 2 years warranty

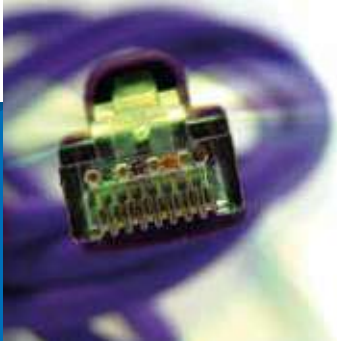




STS 3000 - 4000 SERIES

TECHNICAL SPECIFICATIONS

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)	380/400/415 VAC 3P + N + G								
Input voltage tolerance	180-264 VAC (PH-N)								
Input frequency	50Hz / 60Hz								
Input frequency range	48-65Hz (upper and lower limits adjustable)								
Efficiency (at 100% load)	> 99%								
Input voltage THD	< 10%								
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 msn for synchronous sources < 10 msn for non-synchronous sources								
Switching type	3-Poles: 3 phase switching / 4-Poles: 3 phase + Neutral switching								
Output current crest factor	3:1								
Admissible overload	0-100% continuous 101% - 150% 1 min. 151% - 200% 10 second > 200% 250 msec								
Protections	Output overload and short circuit protection, Overtemperature protection, Backfeed protection, SCR fault protection								
LCD panel and mimic	Standard								
Communication	RS232 standard, RS485 optional								
TCP/IP connection	Optional								
Dry contacts	4 programmable relay outputs								
Two serial ports	Optional								
Temperature sensor	Standard for internal cabinet temperature								
ENVIRONMENTAL DATA									
Cooling	Forced cooling (redundant fans)								
Operating temperature	0°C - 40°C								
Storage temperature	-10°C up to +50°C								
Relative humidity	90% max. (non-condensing)								
Protection degree	IP20								
Standards	EN 62310-1, EN 62310-2								
Acoustic noise	< 52 dBA			< 55 dBA				< 60 dBA	
MECHANICAL DATA									
Weight (kg) (STS3000 Series)	139	145	165	195	205	230	240	340	520
Weight (kg) (STS4000 Series)	160	175	190	205	235	240	255	375	560
Dimensions (mm) HxWxD	1500x680x540			1775x680x585				1905x915x725	1900x1250x850



SPECIAL PRODUCTS

FREQUENCY CONVERTERS

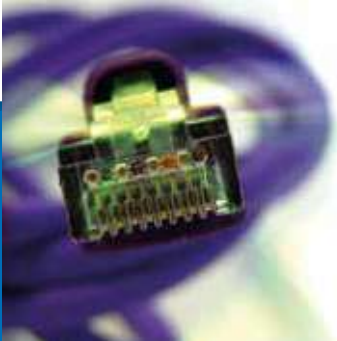
Tescom, Frequency Converters are used for converting either 50Hz, 60Hz or 400Hz, utility line power to 50Hz, 60Hz or 400Hz power to run your mission critical equipment. All Tescom solid state frequency converters use IGBT technology and are designed for continuous operation.

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. ($\pm 5\%$)
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 down the 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.

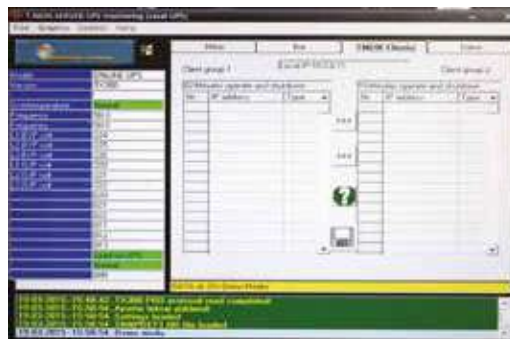
T-MON UPS Software provides other useful management functions too, such as scheduling automatic system boot up and shutdown, monitoring UPS battery condition and logging and analysing abnormal utility power conditions.

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 normal "SerCon" automatic shutdown program T-MON also provides source codes so that a programmer can compile their own requirements.



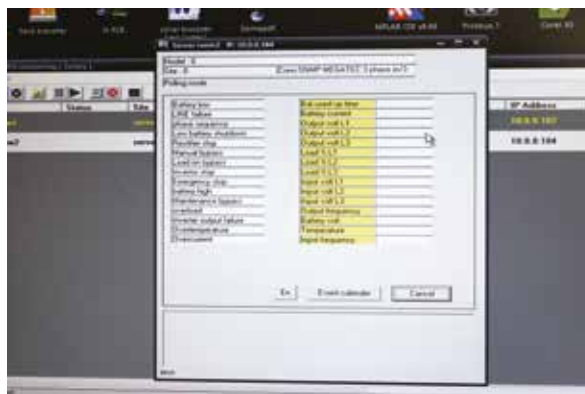
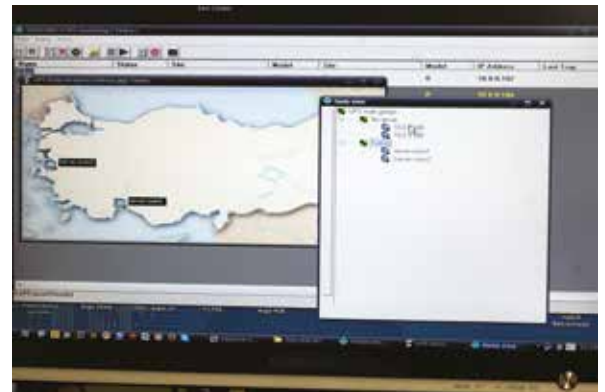


T-MON SOFTWARES

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.



ACCESSORIES

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)

ACCESSORIES

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

ACCESSORIES

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

ACCESSORIES

i-com Series UPS Accessories

Model: GM-2



External GSM / GPRS modem for UPS

- 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

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

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