

























Highlights -

- Rectifier and Inverter Technology
- Ultra High Energy Efficiency
- Full Rated Power Factor kW=kVA
- Marine Filter System

New Generation IGBT Technology -

• The new generation IGBT technology has high efficiency in the fully controlled uninterruptible power supply class.

Maximum Availability

- Parallel configuration up to 8 units per redundancy (N+1) and power increase.
- Loop connection helps the UPS system to continue the operation when the connection cable is inturrupted.

High Efficiency & Low Total Cost of Ownership

- Less energy consumption to supply the loads thanks to high efficiency up to 95%.
- Reduced energy loss.
- Reduced electricity usage and air conditioning requirements.
- Reduction in operating cost of UPS.
- IGBT based power factor correction technology provides input power factor close to 1 (≥ 0,99). The high input power leads to reduced electricity pay-out, minimizes cable, switchboard, fuse and generator requirements, thus reducing investment cost.
- Low input current total harmonic distortion (THDi) less than 3% helps to avoid the disturbance and expensive harmonic filters.
- Small footprint and easy maintenance.









Nominal Voltage	380/400/415 VAC 3P+PE -20% +15%						
Voltage with External Transformer	208-690 VAC 3P+PE -20% +15% (Optional)						
Frequency Tolerance	50 / 60 Hz ±10% (Selectable)						
Power Factor	>0.99						
Total Harmonic Distortion (THD)	<3%						
OUTPUT							
Power Factor	0.9 (1 Optional)						
Nominal Voltage	3:3 380/400/415 VAC 3P+PE 3:1 115/230 VAC 2P+PE						
Voltage with External Transformer	208-690 VAC 3P+PE (Optional)						
Frequency Tolerance	50 / 60 Hz ±0,01% (Battery Mode)						
Output THD	<1 % (Linear Load) / <3% (Non-Linear Load)						
Crest Factor	3:1						
Overload Capacity*	At 125% Load 10min, At 150% Load 1min						
Efficiency	95% Online Mode 99% Eco Mode						
BYPASS							
Nominal Voltage	380/400/415 VAC 3P+PE						
Voltage Tolerance	%15 (Configurable from 10% to 30%)						
Frequency Tolerance	±5 (Selectable)						
BATTERY							
Туре	VRLA / GEL						
Quantity (12V DC VRLA)	32 / 34 / 36 / 38 / 40 / 42 / 44						
Charge Rate	10% UPS Capacity (Selectable from:1 ~ 20% * UPS Capacity)						
Recharge Time	6-8 hour						
ENVIRONMENTAL							
Operating Temperature	For UPS 0°C/+40°C For Battery +15°C/+25°C						
Storage Temperature	For UPS -15°C/+45°C For Battery 0°C/+30°C						
Protection Class	IP23 (IP Optional)						
Humidity	0-95% (Without Condensation)						
Altitude	<1000m: Correction Factor 1, <2000m: Correction Factor >0.9 <3000m: Correction Factor >0.84						
COMMUNICATION							
Communication Port	RS232 Standart, RS485, Mod-BUS, J-Bus, Web, Tel-Net, GPF CAN-Bus, SNMP (Optional), Dry Contact						
STANDARDS							
Quality	ISO 9001, ISO 14001, ISO 45001, CE, TSE, TSE-HYB						
Performance	EN62040-3 (VFI-SS-111, Bureau Veritas Certified)						
EMC/LVD	EN62040-2, EN62040-1, EN60950 (TÜV SÜD Certified)						
Marine Certificate	Optional						
DIMENSION & WEIGHT							
Cabinet Dimensions (mm)	Contact us for Dimensions.						





Related Voltage	1:1 115V / 208V / 220V / 230V / 240 VAC 2P+PE												
Voltage Range	-20% /+15%												
Frequency	40 ~ 70 Hz (Auto Sensing)												
Power Factor	>0.99												
Bypass Voltage Range	-25% ~ +15% (Seectable)												
Generator	Compatible												
OUTPUT													
Voltage Range	115V /208V / 220V / 230V / 240 VAC 2P+PE												
Voltage Regulation	±1%												
Frequency	45 ~ 55 Hz or 55~ 65 Hz (Synchronized Range); 50 / 60 Hz ±0.1 Hz (Battery Mode)												
Waveform	Sinusoidal												
Crest Factor	3:1												
Harmonic Distortion	<2% (Linear Load) / <5% (Non-Linear Load)												
Transfer Time	Mains Mode - Battery Mode: 0ms Inverter Mode - Bypass Mode: 4ms (Tipik)												
Overload Capacity	105%-125%: Transfer to Bypass in 1min 125% -150%: Transfer to Bypass in 30s >150%:Transfer to Bypass in 300ms												
EFFICIENCY													
Online Mode		≥90%	, o		≥91%			≥92%		≥92%	≥91%		
ECO Mode	≥95%			≥96%			≥97%			≥98%	≥98%		
BATTERY													
DC Voltage	24V	36V	36V	48V	72V	72V	72V	96V	96V	192V - 240V	192V-240V		
Inbuilt Battery	2x7Ah	3x7Ah	Harici	4x7Ah	6x7Ah	Harici	6x7Ah	8x7Ah	Harici	16/20 x 7/9Ah	16/20 x 7/9Ah		
Charging Current (Max.)	1A 6A			1A 6A			1A 6A			3,5A	3,5A		
Recharge Time								8	h				
ENVIRONMENTAL													
Protection Class							IP2	3 (IP C	Option	al)			
Operating Temperature	0~40°C												
Relative Humidity	0~90% (Non-Condensing)												
Noise Level	≤ 45 dB (1m)									≤50 dB (1m)	≤55-60 dB (1m)		
COMMUNICATION	1												
RS232 (Standard) / USB (Optior	nal)		•						ista/2008/Wind			
SNMP (Optional)				Power	Manc	igeme				nager and Web	Browser		
Dry Contact							9	Alarm	Outpu	ut			
STANDARDS													
Security EMC	CE LVD CE EMC												
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Standard Electrical Features

- Parallel-Redundant (N+X) Systems
- Co-Aging
- Dual Input
- Common Battery
- Backfeed Protection
- Cold Start (Optional)
- Advanced Battery Management
- Short Circuit and Overload Protection
- Parallel Ready
- Redundant Power Supply
- Power Walk-in for Progressive Rectifier
- Start-up when the Mains is Restored
- Battery Temperature Sensor
- Static and Manual Bypass Operation
- Co-Aging
- Smart Paralleling

Advanced Communication Features

- 2000 Real Time Event Log with Detailed Parameters (Three Phase Devices)
- User Friendly Multilingual Graphic Display Provides Operation Information
- Monitoring and Shutdown Software
- RS232 Serial and RS485 Ports
- 2 Communication Slots
- ModBUS RTU / ModBUS TCP (Optional)
- Remote Emergency Power Off (Optional)
- Remote Display Panel (Optional)
- Dry Contact (Optional)
- SNMP (Optional)

Flexibility

- MT-UPS Series provides maximum flexibility advantage for all applications. It can be configured in a variety of features with available options and accessories.
- Custom input voltage range.
- It can be used in capacitive loads such as blade server etc. thanks to its flexible configuration with existing options and accessories.
- Temperature sensor for external battery cabinets.
- External battery cabinets for different sizes of batteries.
- 3/1 phase version in 10-30kVA models.
- Galvanic isolation.
- Compatible version with EN 50171 for supplying power to emergency lighting systems.
- Leak Detection (Optional)

High Output Power Factor 1

- Output power factor of 1 (kVA=kW) rate provides up to 25% more active power than a traditional UPS.
- Suitable for modern power supply application with unit or capacitive power factor (e.g. new servers generation).
- No reduction in active power from 0,9 leading to 0,9 lagging.

