



YOUR ULTIMATE POWER PROTECTION PARTNER



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EX 1kVA-10kVA

The EX UPS is an online double conversion UPS available from 1kVA to 10kVA with an output power factor 0.9. It is equipped with DSP technology for increased power efficiency and power density. The EX series has USB and RS-232 communication ports as standard, with a built-in intelligent slot for optional protocol converters (e.g. SNMP...). The EX Series is the best solution for different applications: servers and networking devices, control systems, video surveillance systems...

Description

- True Online Double Conversion Design
- Pure Sine Wave Output
- Fully Digitized Microprocessor Control
- DSP Technology (for 6K and 10K models)
- Output Power Factor 0.9
- Active Input Power Factor Correction (PFC 0.99)
- 50/60 Hz Frequency Converter
- Wide Input Voltage Range
- Built in Automatic Bypass
- Generator Compatible
- Emergency Power Off Function (EPO)
- Cold Start Function (DC Power On)
- Advanced Battery Management (ABM Technology)
- Eco Mode For Energy Saving
- Programmable Power Management Outlets
- Multi-Function LCD Display
- Software Monitoring and Control
- Smart RS-232/USB Communication Port
- SNMP/AS-400 Communication Slots

Technical Specifications

Model	Model	EX 1K	EX 2K	EX 3K	EX 6K	EX 10K
	Rating	1000VA	2000VA	3000VA	6000VA	10000VA
	Output Power	900W	1800W	2700W	5400W	9000W
Input	Voltage	220/230/240 VAC, 1Ø 2wires				
	Voltage Range	180-300 VAC at 100% load, 140-300 VAC at 50% load				
	Frequency	40 to 70 Hz				
	Power Factor	>99% at 100% load				
	Total Harmonic Distorsion in Current THDi	<5% at 100% load				
Output	Voltage (backup mode)	208/230/240 VAC +/-1%, 1Ø 2wires				
	Frequency (backup mode)	50/60 Hz +/-0.5 Hz				
	Waveform	Pure sine wave				
	Transfer Time (AC to Batt. Mode)	0 ms				
	Transfer Time (Inverter to Bypass)	<4 ms				
	Total Harmonic Distorsion	≤3% (linear load), ≤5% (non linear load)		≤3% (linear load), ≤5% (non linear load)		
Efficiency	Crest Factor	3:1				
	AC Mode	93%	94%	>94%	>95%	
	Battery Mode	92%	93%	>92%	>93%	
Protection	Overload (AC Mode)	110% for 10min, 130% for 1min, >130% for 3sec			110% for 10min, 130% for 5min, >130% for 10sec	
	Short Circuit	UPS output cuts off immediately using input fuse/circuit breaker protection				
System Display	LCD Indicators	Load level, battery level, AC mode, battery mode, bypass mode and fault indicators				
Battery	Battery Type	12V 9Ah				
	Battery Number	2	4	6	20	
	Nominal DC Voltage	24 VDC	48 VDC	72 VDC	240 VDC	
	Typical Recharge Time	4 hours to 90% capacity			5 hours to 90% capacity	
	Charging Current	1 A			1-2 A (adjustable)	
	Charging Voltage	27.4VDC +/-1%	54.7VDC +/-1%	82.1 VDC +/-1%	273 VDC +/-1%	
Audible Alarm	Backup time	10~15 min depending on load				
	Battery Mode	Sounding every 4 sec				
	Low Battery	Sounding every second				
	Overload	Sounding twice every second				
	Fault	Continuously sounding				
Communication	USB or RS-232	Interface with power management software				
	SNMP, AS-400 ¹	Power management from SNMP manager and web browser				
	Compatibility	Supports Windows family, Linux, Unix, and Mac				
Physical	Output Receptacles	3x Schuko/ Universal/IEC/ NEMA/ India sockets	4x Schuko/ Universal sockets or 4x IEC/NEMA/ India sockets	4x Schuko/ Universal/IEC/ NEMA/ India sockets	Terminal connection	
	Dimension WxDxH (mm)	140x191x327	151x225x390	196x342x416	196x412x702	196x412x702
	Net Weight (kg)	8.5	15.7	24	63	76
Environment	Operating Temperature	0 to 40°C				
	Altitude	Maximum elevation at 1500m				
	Audible Noise	<50dB at 1m			<55dB at 1m	<58dB at 1m
	Operating Humidity	20 to 90% humidity (non-condensing)			0 to 95% humidity (non-condensing)	
Standards & Certifications	Performance	EN 50091-3/IEC 62040-3				
	Safety	UL 1778, CE, EN 50091-1, EN 69050 (RD), IEC 60950				
	EMC (EMS/EMI)	IEC 61000-4-2/-3/-4/-5/-6/-8/-11, IEC 61000-3-2/-3, FCC Part 15, CISPR 22, EN 50091-2/IEC 62040-2 Class A, EN 55022/B, FCC 47 Part 15 - Subpart B -				
	Design, production & services	ISO 9001				
	Environment	ISO 14001 certified company				
	Marking & Certifications	CE, TUV/GS, UL, cUL, c-Tick				

¹ * For optional features

