

On Line Uninterruptible Power Supply Powersonic Series 1-2-3 kVA



Specifications

- Output power factor 0.8
- True double-conversion
- Microprocessor control optimizes reliability
- Wide input voltage (110 V – 300 V)
- 50/60Hz Frequency Converter Mode
- ECO mode energy saving
- Generator compatible
- Smart SNMP works well with either USB or RS-232 together



General Application Areas:



Finance



Medical



Home / Office

Powersonic Series 1-2-3 kVA Technical Specifications

MODEL		Powersonic 1 kVA	Powersonic 2 kVA	Powersonic 3 kVA
Capacity (VA/Watt)*		1000 VA / 800 Watt	2000 VA / 1600 Watt	3000 VA / 2400 Watt
Input				
Voltage Range	Low Line Transfer	160VAC/140VAC/120VAC/110VAC ± 5% [Ambient Temp.<35°C] [based on load percentage 100% - 80 % / 80 % - 70 % / 70 - 60 % / 60 % - 0]		
	Low Line Comeback	175VAC/155VAC/135VAC/125VAC ± 5 % [Ambient Temp.<35°C][based on load percentage 100% - 80 % / 80 % - 70 % / 70 - 60 % / 60 % - 0]		
	High Line Transfer	300 VAC ± 5 %		
	High Line Comeback	290 VAC ± 5 %		
Frequency Range		40Hz ~ 70 Hz		
Phase		Single phase neutral and ground		
Power Factor		≥ 0.99 @ nominal voltage (input voltage)		
Output				
Output Voltage		200 / 208 / 220 / 230 / 240 VAC [Derate capacity to 80% of capacity in frequency converter mode or when the output voltage is adjusted to 200/208VAC]		
AC Voltage Regulation		±1%		
Frequency Range		47 ~ 53 Hz or 57 ~ 63 Hz [Synchronized Range]		
Frequency Range [Batt. Mode]		50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz		
Overload		Ambient Temp.<35°C 105%-110%: UPS shuts down after 10 minutes at battery mode or transfer to bypass when the utility is normal Overload 110%-130%: UPS shuts down after 1minute at battery mode or transfer to bypass when the utility is normal >130%:UPS shuts down after 3 seconds at battery mode or transfer to bypass when the utility is normal		
Current Crest Ratio		3:1		
Harmonic Distortion		≤ 3 % THD (linear load); ≤ 6 % THD (non-linear load)		
Transfer Time	AC to Battery	Zero		
	Inverter to Bypass	4 ms [Typical]		
Waveform		Pure Sinewave		
Efficiency				
AC Mode		88 %	89 %	90 %
Battery Mode		83 %	87 %	88 %
Battery				
Standard Model	Battery Type	12 V / 9 AH	12 V / 9 AH	12 V / 9 AH
	Numbers	2	4	6
	Recharge Time	4 hours recover to 90% capacity (Typical)		
	Charging Current	1.0 A [max.]		
	Charging Voltage	27.4 VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%
Long-run Model	Battery Numbers	2	4	6
	Charging Current	1.0A / 2.0A / 4.0A / 6.0 A (Adjustable)		
	Charging Voltage	27.4 VDC ± 1%	54.7 VDC ±1%	82.1 VDC ±1%
Physical				
Standard Model with Bat.	Dimension, D x W x H	282 x 145 x 220 (mm)	397 x 145 x 220 (mm)	421 x 190 x 318 (mm)
	Net Weight (kgs)	9.8	17	27.6
Long-run Model	Dimension, D X W X H	282 x 145 x 220 (mm)	397 x 145 x 220(mm)	
	Net Weight (kgs)	4.1	6.8	7.4
Environment				
Operation Humidity		20-90 % RH @ 0- 40°C (non-condensing)		
Noise Level		Less than 50dBA @ 1 Meter		
Management				
Smart RS-232 or USB		Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux, Unix and MAC		
Optional SNMP		Power management from SNMP manager and web browser		

*Product specifications are subject to change without further notice to third parties. Powersonic®
 * Derate capacity to 80% of capacity in frequency converter mode or when the output voltage is adjusted to 200/208VAC.

