

Spectra Tower Series 1:1 Phase 0.9PF, 1 To 3KVA, Online UPS

Reference Standard- Safety - IEC/EN62040-1, IEC/EN62477-1, EMC - IEC/EN62040-2, IEC61000-4-2, IEC61000-4-3, IEC61000-4-4, IEC61000-4-5, IEC61000-4-6, IEC61000-4-8



Features

- High power density
- Online double conversion with full digital control
- Wide input voltage range: 110~300Vac
- Input power factor 0.99 with PFC
- Selectable output voltage: 208/220/230/240Vac
- Smart charger design for optimized battery performance
- Versatile LCD human-computer interface
- Emergency power off function (EPO)
- ECO mode operation for energy saving
- Generator compatible
- Intelligent fan speed regulation
- Load segment settable (Optional)
- Maximum charging current can be expanded to 12A (Long run unit)
- Multiple communication interface: RS232 (USB/EPO/Dry contact / SNMP card optional)
- Multiple protection function: short-circuit, overload, overheat, battery overcharge and overdischarge, output low voltage and fan fault alarm

Mechanical Drawing

Battery Cabinet (Optional)	Optimized Battery Configuration 7Ah/9Ah (12V)



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Technical Specifications

Model	E001SIT31	E002SIT31	E003SIT31
Capacity	1000VA / 900W	2000VA / 1800W	3000VA / 2700W

Input

Nominal Voltage	208/220/230/240Vac
Input Voltage Range	110~300Vac (176~280Vac @ 100% load)
Frequency Range	40~70Hz (50/60Hz Auto-Sensing)
Power Factor	≥ 0.99

Output

Output Voltage		208/220/230/240Vac
Power Factor		0.9PF
Voltage Regulation		± 1%
Output Frequency	Line Mode	46~54Hz or 56~64Hz
	Battery Mode	(50/60 ± 0.1%)Hz
Crest Factor		3:1
Harmonic distortion (THDv)		≤ 3% Linear load
		≤ 5% Non linear load
Transfer Time	AC Mode to Battery Mode	0ms
	Inverter to Bypass	4ms (Typical)
Waveform (Batt. Mode)		Pure Sinewave

Efficiency

AC Mode	88%	90%	91%
Battery Mode	85%	87%	88%

Battery

Battery Number	2	4	6
Capacity (Standard unit)	9Ah / 12V		
Typical Recharge Time	4 hours (to 90% of full capacity)		
Charging Voltage	27.4 Vdc ±1%	54.8 Vdc ± 1%	82.2 Vdc ± 1%
Charging Current (Max	1A	1A	1A



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Technical Specifications

Model	E001SIT31	E002SIT31	E003SIT31
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Indicators

LED Display	Line mode, Bat.mode, ECO mode, Bypass mode, Battery low voltage, Overload & UPS fault
LCD Display	Input voltage, Input frequency, Output voltage, Output frequency, Load percentage, Battery voltage, Inner temperature & Remaining battery backup time

Alarm

Battery Mode	Beeping every 4 seconds
Battery Low	Beeping every second
Overload	Beeping twice every second
Fault	Continuously sounding

Physical

Dimension D x W x H (mm)	144 x 293 x 209	191 x 460 x 337	
Net Weight (kgs)	9.3	19.5	24.5

Environment

Operating Temperature	0°C~40°C
Storage Temperature	-25°C~55°C
Humidity Range	20~95%RH @ 0~40°C (Non condensing)
Altitude	<1500m, derating required when >1500m
Noise Level	<50dB at 1 Meter

