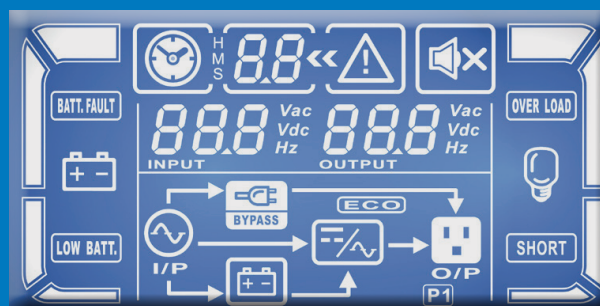




LCD Display Panel



• True double-conversion

A true double conversion UPS will provide clean, high level quality power to fully protect mission-critical devices such as sensitive networks, small computer centers, servers, telecom applications, as well as for industrial applications.

• Output power factor 0.9

Compared to the online UPSs in the current market, Spectra Power Systems series provides better output power factor up to 0.9. It offers higher performance and efficiency for critical applications.

• Wide input voltage range (110 V 300- V)

Spectra Power Systems can still provide stable power to connected devices under unstable power environments.

• Programmable power management outlets

With programmable power management outlets, users can easily and independently control load segments. During power failure, this feature enables users to extend battery time to mission-critical devices by shutting down the noncritical devices.



Programmable Outlets (P1) connect to non-critical devices

• 60/50 Hz Frequency Converter Mode

Lock output frequency at 50Hz or 60Hz to suit power sensitive equipments.

• ECO mode operation for energy saving

Offers efficiency as high as %97 to cut energy usage & cost. UPS power application via static bypass, timely returning to online double conversion when the need arises.

• Emergency Power Off (EPO) Function

This feature can secure the personnel and equipment in case of fires or other emergencies.

• SNMP+USB+RS232- multiple communications

This feature allows either USB or RS232- communication port to work with SNMP interface simultaneously.

• Smart battery charger design to optimize battery performance

• Spectra Power Systems 3-1K series is equipped with -2stage charger design to guarantee battery discharge time. Besides, it will adjust charging voltage according to outside temperature. This features will extend the useful service life of batteries.

• Spectra Power Systems 6K and up models are equipped with -3stage extendable charger for optimized battery performance. This feature extends the useful service life of batteries and optimizes battery recharge time. Besides, the extendable charger design can be stacked in numbers for large-capacity battery charging.

• DSP technology applied for 6K and up models

A DSP controller provides an improved and cost-effective solution with high performance.

• Maintenance bypass available for 6K and up models

Internal bypass assures continuous power to critical devices during UPS maintenance.

• Optional N+X parallel redundancy available for 6K and up models

Spectra Power Systems (6K and up models) can be used in parallel operation with up to 3 units. It increases power capacity, safety, and availability.

• Adjustable battery numbers for 6K and up models

Spectra Power Systems (6K and up models) can still normal operate well with only 18 or 20 internal batteries.

• Built-in isolation transformer (Option)

With built-in isolation transformer, the UPS will offer full isolation and complete common mode noise rejection for connected precious equipment. It become an ideal power source with %100 protection against unexpected AC power problems.



1k / 2k / 3k

Spectra Power Systems 1K/1.5K/2K/3K True Online UPS Selection Guide

MODEL		SPECTRA 1K	SPECTRA 1.5K	SPECTRA 2K	SPECTRA 3K	
CAPACITY		1000 VA / 900 W	1500 VA / 1350 W	2000 VA / 1800 W	3000 VA / 2700 W	
INPUT						
Voltage Range	Low Line Transfer	160 VAC ± 5% or 80 VAC ± 5% @ 100% load 110 VAC ± 5% or 55 VAC ± 5% @ 50% load				
	Low Line Comeback	168 VAC ± 5% or 84 VAC ± 5% @ 100% load				
	High Line Transfer	300 VAC ± 5% or 150 VAC ± 5%				
	High Line Comeback	290 VAC ± 5% or 145 VAC ± 5%				
Frequency Range		40 Hz ~ 70 Hz				
Phase		Single phase with ground				
Power Factor		0.99 @ nominal voltage (100% load)				
OUTPUT						
Output Voltage		200/208/220/230/240 VAC or 100/110/115/120/127 VAC				
AC Voltage Regulation (Batt. Mode)		± 1%				
Frequency Range (Synchronized Range)		47 ~ 53 Hz or 57 ~ 63 Hz				
Frequency Range (Batt. Mode)		50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz				
Current Crest Ratio		3:1				
Harmonic Distortion		≤ 2 % THD (Linear Load)				
Transfer Time	AC Mode to Batt. Mode	Zero				
	Inverter to Bypass	4 ms (Typical)				
Waveform (Batt. Mode)		Pure Sinewave				
EFFICIENCY						
AC Mode		87%		90%		
Battery Mode		83%		87%		
BATTERY						
Standard Model	Battery Type	12 V / 7 Ah	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah	
	Numbers	3	3	6	6	
	Typical Recharge Time	4 hours recover to 90% capacity				
	Charging Current (max.)	1.0 A				
	Charging Voltage	41.0 V _{DC} ± 1%		82.1 V _{DC} ± 1%		
Long-run Model	Battery Type	Depending on the capacity of external batteries				
	Numbers					
	Charging Current (max.)	8.0 A				
	Charging Voltage	41.0 V _{DC} ± 1%		82.1 V _{DC} ± 1%		
INDICATORS						
LCD Panel		UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions				
LED Panel		Sixteen LEDs indicating UPS status, Load level, Battery level, overload, fault, and programmable outlet information				
ALARM						
Battery Mode		Sounding every 4 seconds				
Low Battery		Sounding every second				
Overload		Sounding twice every second				
Fault		Continuously sounding				
PHYSICAL						
Tower Case	Standard Model	Dimension, DXWXH (mm)	397 X 145 X 220		421 X 190 X 318	
		Net Weight (kgs)	13	14	26	28
	Long-run Model	Dimension, DXWXH (mm)	397 X 145 X 220		421 X 190 X 318	
		Net Weight (kgs)	7	7	13	13
Rack Case	Standard Model	Dimension, DXWXH (mm)	420x438x88[2U]		580x438x133[3U]	
		Net Weight (kgs)	16	17	29	31
	Long-run Model	Dimension, DXWXH (mm)	420x438x88[2U]		580x438x133[3U]	
		Net Weight (kgs)	10	10	17	17
ENVIRONMENT						
Operation Humidity		20-90 % RH @ 0- 40°C (non-condensing)				
Noise Level		Less than 50dB @ 1 Meter				
MANAGEMENT						
Smart RS-232/USB		Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7, Linux, Unix, and MAC				
Optional SNMP		Power management from SNMP manager and web browser				

** Derate capacity to 60% of capacity in Frequency converter mode and to 80% when the output voltage is adjusted to 100VAC, 200VAC or 208VAC
 * L means long-run model
 * Product specifications are subject to change without further notice