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 availiability.

• Adjutable 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.

Spectra Power Systems 6K/8K/10K True Online UPS Selection Guide

MODEL		7100 Series 6 kVA	7100 Series 8 kVA	7100 Series 10 kVA
PHASE		2 phase in / 2 phase & neutral out w / internal isolation transformer		
CAPACITY		6000 VA / 6000 W	8000 VA / 8000 W	10000 VA /10000W
INPUT				
Voltage Range	Low Line Transfer	176 VAC @ 100% load 110 VAC @ 50% load		
	Low Line Comeback	186 VAC @ 100% load 120 VAC @ 50% load		
	High Line Transfer	300 VAC		
	High Line Comeback	290 VAC		
Frequency Range		46~54 Hz ◎ 50Hz / 56~64 Hz ◎ 60Hz		
Phase		208240/ VAC Single phase with ground		
Power Factor		≧ 1 @ 100% load		
OUTPUT				
Output Voltage		104 VAC x 2 / 208 VAC or 110 VAC x 2 / 220 VAC or 115 VAC x 2 / 230 VAC or 120 VAC x 2 / 240 VAC		
AC Voltage Regulation (Batt. Mode)		± 1%		
Frequency Range (Synchronized Range)		46~54 Hz ◎ 50 Hz / 56~64 Hz ◎ 60 Hz		
Frequency Range (Batt. Mode)		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		
Power Factor		1		
Current Crest Ratio		3:1 (max.)		
Harmonic Distortion		≦ 3 % THD (Linear Load), ≦ 1 % THD (Typical)		
Transfer Time	AC Mode to Batt. Mode	Zero		
	Inverter to Bypass	zero		
Waveform (Batt. Mode)		Pure Sinewave		
EFFICIENCY				
AC Mode		90%		
Battery Mode		90%		
BATTERY				
Battery Type		VRL 12 V / 7 AH	VRL 12 V / 9 AH	
Numbers		20	20	
Typical Recharge Time		7 hours recover to 90% capacity	9 hours recover to 90% capacity	
Charging Current (max.)		1.0 A	1.0 A	
Charging Voltage		273.0 V_{DC}		
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				
Dimension, D X W X H (mm)		592 X 250 X 826	592 X 250 X 826	592 X 250 X 826
Net Weight (kgs)		124	142	142
ENVIRONMENT				
Operation Humidity		2090- % RH @ 0- 40°C (non-condensing)		
Noise Level		Less than 55dBA @ 1 Meter		Less than 58dB @ 1 Meter
MANAGEMENT				
Smart RS-232		Supports Windows® 20002003//XP/Vista/20087/, Linux, Unix, and MAC		
USB				
Optional SNMP		Power management from SNMP manager and web browser		

* Derate capacity to 50% of capacity in CVCF mode and to 90% when the output voltage is adjusted to 208VAC.

**If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m.

* L means long-run model

* Product specifications are subject to change without further notice