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SP1650/1660

CATV Uninterruptible Power Supply

Product Features

- Occupies same volume as non battery backed CVT power system.
- Integral battery management with 10A charging facility.
- Operation Configurable by microprocessor controller.
- Remote monitor and control facility by RS232 interface.

MAINS AC SUPPLY Input Voltage	230V AC +15% -10%, Single Phase
Input Frequency	50Hz +/- 6%
Input Current	8A rms
Inrush Current	30A Max for <10mS
Power Factor	>0.95
Insulation to earth and to outputs to the requirements of EN60950	
AC OUTPUT Output Voltage	56 to 63VAC rms Adjustable, Factory set to 60VAC rms
Output Frequency	50Hz +/- 6%, Quasi-square
Output Current Range	0 - 15A rms
Line Regulation	+/- 1%
Short Circuit Current	<25A (before unit shuts down)
Output Over Voltage	70V +/- 2VAC Trip & Reset
Output Voltage Drift	<20mV/°C

BATTERY MANAGEMENT Float Voltage	55.8V +/- 0.3V at 20°C, temperature compensated
Charging Current	0 - 10A Max, depending on battery charge state. Current limit field selectable, 5A or 10A
Protection	Low Battery Detection, Invertor Shutdown, Battery Input, Fuse 30A
Battery Good Test	Automatically check battery condition on load every 7 days for 10 minutes
Battery Present Test	Automatically check every hour if the battery is present.

SYSTEM MANAGEMENT Alarms	Alarm 1: AC Input Mains Good	Alarm 2: AC Output Good
	Alarm 3: AC/DC Convertor Good	Alarm 4: Battery Good
	Alarm 5: Alarms 1-4 in series	Alarm 6: Battery Present
	Alarm 7: Battery Charger Good	Alarm 8: Alarms 1-4 & 6-7 Six Green LED's
All alarms are available via 37 way D type socket and are isolated relay contacts		
Analogue Outputs	PSU Heatsink Temperature:	50 mV/°C
	CATV Output VAC:	0.1 VDC/Vrms
	CATV AC Output Current	0.1 VDC/Arms
	Battery Voltage	0.1 VDC/VDC
	Battery Charging Current	1 VDC/ADC
All analogue outputs are available via 37 way D type socket		
Serial Interface	An RS232 serial communications interface will be provided. The output information that will be available from this port will include the alarm status and the analogue signals as defined above. The interface will also enable the activation of the Battery Good Test and the Battery Present Test.	
Thermal Protection	Heatsink temperature 80°C, internal fan operation Heatsink temperature 100°C the system will switch to battery backup operation until heatsink has fallen to normal level.	

ENVIRONMENTAL CONDITIONS AND STANDARDS		**MECHANICAL FORMAT OPTIONS**	
Working Temperature	-20 to +65°C	The SP1650 is housed in a backboard mounting enclosure	
Storing Temperature	-25 to +85°C	**Height:** 410mm **Depth:** 210mm **Width:** 170mm **Weight:** <10Kg	
Enclosure	To IP20	The SP1660 is housed in a 19" rack mounting enclosure	
Safety	EN60950 (Class 1 Equipment)	**Height:** 3U(133mm) **Depth:** 210mm **Width:** 405mm **Weight:** <10Kg	
	CE Marked LVD Compliant	Electrical Connection	SP1650 on front & RH panels SP1660 on front panel only
EMC	EN50081-1 (emissions)		
	EN50082-1 (immunity)	Mains Input	Fused IEC connector
	EN6100-3-2 (mains harmonics)	AC Output	Screw Terminals rising clamp type
	EN61003-3 (mains fluctuatuions)	Battery Input	4 way Beau Type
		Temperature Sensor	2 way Molex Mini - Fit JNR
		Alarms, Remote Enable	37 way D type socket
		Serial Interface RS232	9 way D type socket

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