

POWER - PLUS

DC POWER SYSTEM



Type : PP-24V-50A-5PRC100

- Enclosed weather-proof cabinet
- Metering : DC voltmeter and DC ammeter
- DC and AC distribution Panel
- Low voltage load disconnect
- Battery isolation switch
- Alarm dry contact

TECHNICAL SPECIFICATIONS OF SWITCHMODE DC POWER SYSTEMS

Input Voltage : 176 - 264 Vac (Phase voltage), Single or Three Phase (complies to IEC 364)

Input Current : for Single Phase - 8Amax

Input Frequency : 45 - 66 Hz

Harmonic Distortion : 3%, complies to EN61000-3-2

Input Power Factor : Greater than 0.9, typically 0.98 corrected to EN6100-3-2 for output loads in excess of 50%

Start up time : 3 sec. From application of line input to output voltage achieving regulation

Output Voltage : 24Vdc (nominal voltage)

Float output : 27.2Vdc

Boost Output : 28.8 Vdc

Output Current : 50A_{dc} (50A_{dc} per rectifier module)

Output capacity : 3000Watts

Reverse Quiescent Current : 5mA

Recovery (within 500mV) : 2 msec

Temperature coefficient : $\pm 0.015\%$ / °C over the operating temperature range

Ripple and noise : <50mV_{rms}, complies to ETS300386-2-3 and BTNR2511

Efficiency : > 90%

Backup Time : 14 hours for the load 8 x 4.16A

Protection :

Output Current Limit : The system is designed to operate continuously in current limit. The current limit characteristic is constant down to 20V_{dc} below which the current folds back to the short circuit value

Output Over Voltage : An output voltage in excess of the trip levels will cause the rectifier module to latch into a shutdown condition. The rectifier module can be reset by interrupting mains input. The over voltage trip is provided with discrimination so that on parallel connected rectifiers only the faulty rectifier will be shutdown

Thermal : A thermal sensor monitors the internal temperature of the rectifier module, which under thermal overload conditions, will cause the unit to shutdown until the temperature has reduce to an acceptable level.

Distribution Panel : Input MCB and Output MCB, Battery Isolator

Metering : Analog DC Voltmeter and Analog DC Ammeter

Number of Modules in parallel : 1

Environmental Specification : -40°C to +55°C, RH 0 - 85%, Pollution EN60950 degree 2, Vibration complies to BS2011 Test Fc