

# POWER - PLUS

## DC POWER SYSTEM



### Type : PP-48V-200A

- Cabinet
- Metering : DC voltmeter and DC ammeter
- DC and AC distribution Panel
- Low voltage load disconnect
- Battery isolation switch
- Audio and Visual Alarm with dry contact for remote monitoring

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## TECHNICAL SPECIFICATIONS OF SWITCHMODE DC POWER SYSTEMS

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

**Input Current :** 56Amax for single phase or 28Amax for three phase

**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 :** -48Vdc (nominal voltage)

**Float output :** -54.5Vdc

**Boost Output :** -57.6 Vdc

**Output Current :** 200Adc (50Adc per rectifier module)

**Output capacity :** 11200Watts

**Reverse Quiescent Current :** 5mA

**Recovery (within 500mV) :** 2 msec

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

**Ripple and noise :** <50mVrms, complies to ETS300386-2-3 and BTNR2511

**Efficiency :** > 90%

**Backup Time :** Depends on the customer's requirement

### Protection :

**Output Current Limit :** The system is designed to operate continuously in current limit. The current limit characteristic is constant down to 40Vdc 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 :** DC Voltmeter and DC Ammeter

**Number of Modules in parallel :** 4

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