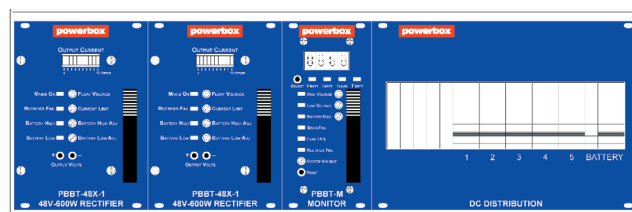


PBBT Series

600 - 2400 WATTS MINI POWER SYSTEM

Features

- Configurable System
- Hot plug rectifier modules
- Monitoring module
- DC distribution module
- Low voltage disconnect option
- Battery alarms



Specifications

INPUT

Input Voltage	198-264 Vrms
Input Surge Voltage (1 second)	280 Vrms
Frequency	45 – 65Hz
Power Factor	0.64 (full load)
Inrush Current	5.0A (Cold start)
Input Current	6.8 – 10 A rms (Full load) Typical input current measured at full rated load at Vin=240Vac, 50Hz.

OUTPUT SPECIFICATIONS

Nominal Voltage	54.0 Vdc
Voltage range	42 – 60 Vdc
Output Current	20 A
Current Limit Adjust	4 – 22.0 A
Power Pout	600 – 1200 W
Output Noise	Wideband and narrowband: ETS 300 132-2 Wideband (25Hz- 20kHz unweighted): 20 mVrms Wideband (25Hz- 5kHz psophometric): 2 mVrms
Output ripple	50mVp-p Output ripple and noise is measured coaxially at the output terminals with BW=20MHz.
Line Regulation	0.5% max (full load)
Load Regulation	1.5% max (no load to full load)
Output Voltage Soft Start	0.5 – 5 Sec
Transient Response	50-100% load step Overshoot 2% Setting time 1mSec
Output Voltage Compensation (Monitoring)	Slope -1.0 V/V Voltage limit adjust +/-5 Vdc
Parallel operation	Current sharing to within ±15% (25% to 100% load)
Method	Passive current sharing Programmed linear output voltage / current characteristic
Holdup Time at full load	30 mS Typ (10 – 40mS)
Efficiency	87% at full load

PROTECTION

Input fusing(rectifier)	Internal 6.3A 250V (T) HRC fuse on input active
Output Short Circuit Current Protection	Load circuit breaker and rectifier current limit with auto reset
Output Overvoltage Protection	1. Fixed shutdown by rectifier (61 – 65 Vdc). Reset by cycling input mains 2. Adjustable shutdown by monitor. Reset by front panel reset button
Output Reverse Polarity Protection	Internal 20A HRC fuse in series with negative output on each rectifier.
Over Temperature Protection	Auto reset Internal temperature 85 – 90°C
Isolation	Input to Chassis 2121 Vdc min Input to Output 4242 Vdc min Output to Chassis 2121 Vdc min Isolation is measured for 1 minute with a DC voltage. Note: Input to output test cannot be performed on a final unit since earthing design is class I.

ALARMS

Battery High Alarm	LED (Red) Front panel Form – C voltage free contact Adjustment Front panel potentiometer Adjustment range 52 – 60 Vdc Hysteresis 3 Vdc Shutdown Configurable to shutdown and latch rectifier by internal link Reset Front panel push button.
Battery Low Alarm	LED (Red) Front panel Form – C voltage free contact Adjustment Front panel potentiometer Adjustment range 40 – 50 Vdc Hysteresis 4 Vdc
Battery Low Voltage Disconnect and Battery Alarm	LED (Red) Front panel Form – C voltage free contact Adjustment Front panel potentiometer Disconnect Alarm Adjustment 40 – 50 Vdc
Mains Fail	LED (Red) Front panel Form – C voltage free contact

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Fuse fail	LED (Red) Front panel Form- C voltage free contact
Rectifier fail	LED (Red) Front panel Form- C voltage free contact
Display LED	3 1/2 digit 8mm high
System voltage	199.9V full scale Accuracy +/-1% of reading +/-1 least significant digit
System load current	199.9A full scale Accuracy +/-1% of reading +/-1 least significant digit
Battery current	199.9A full scale Accuracy +/-1% of reading +/-1 least significant digit
Battery temperature	199.9°C full scale Accuracy +/-1% of reading +/-1 least significant digit
Voltage adjustment	Front panel potentiometer
Output voltage Compensation (Monitoring)	By external voltage or temperature probe Slope -1.0V/V Voltage limit adjust +/-5Vdc

STANDARDS AND APPROVALS

Safety	ACA TS001, AS/NZS3260, IEC60950
Protection class	Class I
Installation category	Installation Category II per AS/NZS3260 (IEC664-1)
Pollution	Pollution Degree 2
RF Emissions	AS/NZS CSIPR11: 2004 Class B

ENVIRONMENTAL SPECIFICATIONS

Cooling	Natural Convection
Operating	-5 – 50 °C Ambient
Operating relative Humidity	(40°C non-condensing) 5 – 90%

MECHANICAL SPECIFICATIONS

Width	19"
Depth	260 mm
Height	3 RU