

PBBT Module Series

600 WATTS TELECOMMUNICATIONS

FEATURES

- Very high efficiency > 89%
- Low Peak-to-Peak Ripple & Noise
- Small size 18TE * 220mm * 3RU
- Optional Battery High and Low alarms
- Free convection operation
- Standalone on plug in options



SPECIFICATIONS

INPUT	
Input voltage	200 – 264VAC
Frequency	45 – 65Hz
Power factor	0.64 (full load)
Input surge voltage	280VAC (1 sec)
Inrush current cold start	2.5A max
Input current full load	3.8A typ 5.0A max
OUTPUT	
Output voltage	42 – 60VDC, 54V nominal
Output current	10A
Current limit adjust	2 – 11A
Output power	600W max
Ripple and noise	50mV p-p (Complies with ETS 300 132-2)
Line regulation	0.5% at full load
Load regulation	1.5% no load to full load
Output voltage soft start	0.5 to 5 sec
Holdup time	10mS (200VAC, full load)
Transient response	50 – 100% load step
Overshoot	2%
Setting time	1mS
Output voltage trimming	(for temperature compensation)
Slope	-1.0V/V
Control voltage limit	±5V
OPERATING	
Efficiency	89% min (full load)
Isolation	Input – Output 4242VDC Input – Chassis 2121VDC Output – Chassis 2121VDC
Parallel operation	Current sharing to within ±15% (25% to 100% load)
Redundancy	Built in output diode protection

PROTECTION	
Output short circuit protection	Auto reset
Output overvoltage protection	Reset by cycling input mains 61-65VDC
Output reverse polarity	Output fuse
Over temperature protection	Auto reset
Input Fusing	6.3A 250V (T) HRC
COMMON ALARMS, DISPLAYS AND CONTROLS	
Mains On	LED (Green) on front panel
Rectifier fail	LED (Red) on front panel N/O voltage free contact
Mains fail	N/O voltage free contact
Output current	10 segment bar graph
Output voltage	1mm protected test sockets
Float voltage adjust	Front panel potentiometer
Current limit adjust	Front panel potentiometer
ALARMS (PBBT-48X (-S) ONLY)	
Remote On/Off	Discrete input tied to output positive turns off rectifier
ALARMS (PBBT-48X-1 (-S) ONLY)	
Battery high alarm	LED (Red) on front panel Front panel potentiometer N/O Voltage Free Contact
Adjustment range hysteresis	52-60VDC 3VDC Configurable to shutdown and latch rectifier by internal link
Battery low alarm adjustment range	LED (Red) on front panel Front panel potentiometer N/O Voltage Free Contact 40-47VDC
Hysteresis	4VDC
ENVIRONMENTAL SPECIFICATIONS	
Cooling	Natural Convection
Operating ambient temp.	-5 to 50°C
Humidity	5% to 90% relative non condensing

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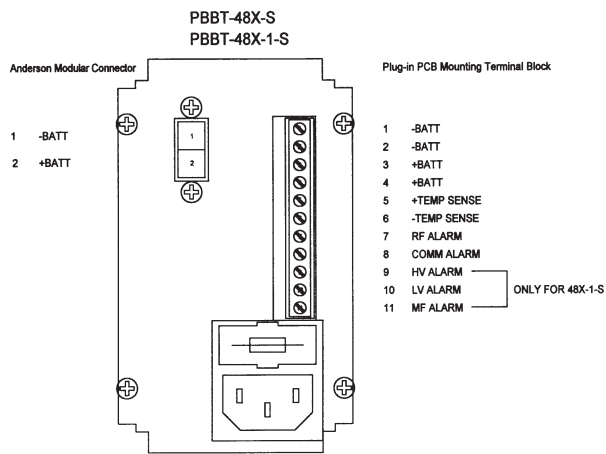
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STANDARDS AND APPROVALS	
Safety	ACA TS001, AS/NZS 3260, IEC 60950 CLASS I, Installation Category 2, Pollution Degree 2
C-Tick/RF emissions	AS/NZS CSIPR11: 2004 Class B

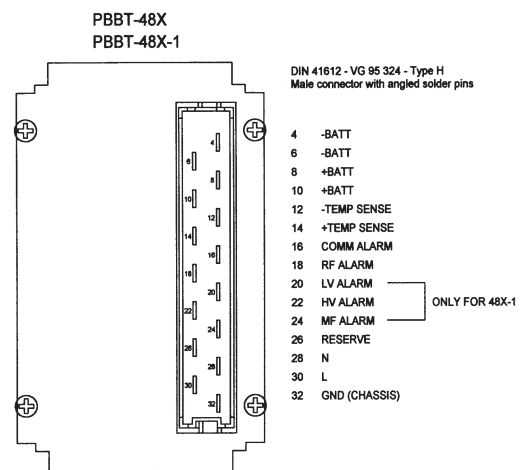
MECHANICAL SPECIFICATIONS		
Dimensions	Width	18TE
	Depth	236mm Rack mount
	Depth	247mm Stand alone
	Height	3RU
Mounting	PBBT-48X/PBBT-48X-1 19" Rack mounting PBBT-48X-S/PBBT-48X-1-S Stand alone	
Termination	Option 1	PBBT-48X/PBBT-48X-1 Rack Mount Rectifier DIN41612 H15 connector
Termination	Option 2	PBBT-48X-S/PBBT-48X-1-S Stand Alone Rectifier Input IEC inlet on near panel Outputs 2-way Anderson 25A powerpole 11-way screw terminal

TECHNICAL ILLUSTRATIONS

REAR VIEW OPTION 1



REAR VIEW OPTION 2



SIDE VIEW

