

**PBB2S Series:** DC UPS / Battery Chargers



#### FEATURES

- 13.8Vdc 3.5A and 7A and 27.6Vdc 3.5A power supplies with battery backup
- High reliability and high efficiency industrial-grade switching power converter
- Universal AC input range from 100Vac to 240Vac nominal without power derating
- Light weight corrosion resistant aluminium enclosure
- Output overcurrent and short circuit protection
- Separate current-limited battery charging output

**DISPLAYS / ALARMS** 

Mains/DC OK

- Output overvoltage protection
- Self-resetting battery fuse
- Overtemperature protection
- Green Mains/DC OK LED and 7A form-C alarm contact
- Green Battery OK LED and 7A form-C alarm contact
- Red Battery Fuse Fail LED

Green LED: ON=OK Voltage-free changeover contact, 30Vdc, 7A rating

### SPECIFICATIONS

INPUT				
Nominal Voltage	100-240Vac			
Current	PBB2S-13-3.5: 1.3A PBB2S-13-7: 2.8A PBB2S-28-3.5: 2.8A			
Nominal Frequency	50-60Hz			
Power Factor	Conforms to EN61000-3-2			
OUTPUT - AC MAINS OPE	RATION			
Output Voltage	See Table			
Output Current*1	See Table			
Battery Charging Current	See Table			
Ripple and Noise*2	See Table			
Short Circuit Protection	Hiccup, non-latching			
Load+Battery Charging	Hiccup overcurrent prot'n >120% of rated current			
Battery Charging	Current limited taper charger			
Overvoltage Prot'n	Hiccup, non-latching			
PBB2S-13-3.5/-7	16V +10%/-5%			
PBB2S-28-3.5	32V ±10%			
OUTPUT - BATTERY OPER	ATION			
Voltage Drop	PBB2S-13-3.5: 0.47V typ.			
Battery to Output	PBB2S-13-7: 0.55V typ. PBB2S-28-3.5: 0.47V typ.			

Battery OK		Green LED: ON=Vbatt >11.5V, 23.0V OFF=Vbatt <10.5V, 21.0V Voltage-free changeover contact, 30Vdc, 7A rating			
Battery Fuse Fai	I	Red LED: ON=FAIL			
STANDARDS					
Safety		AS/NZS60950.1, Class I Certificate NSW26927			
Isolation	I/P to Ground	3.0 kVac, 1 min. 1.9 kVac, 1 min. 500 Vac, 1 min.			
EMC		AS/NZS CISPR22 Class B			
MECHANICAL AND ENVIRONMENTAL					
MECHANICAL	AND ENVIRON	IMENTAL			
Case Size	AND ENVIRON	219x114x62mm (LxWxH)			
	PBB2S-13-3.5 PBB2S-13-7 PBB2S-24-3.5	219x114x62mm (LxWxH) 600g 900g			
Case Size	PBB2S-13-3.5 PBB2S-13-7 PBB2S-24-3.5	219x114x62mm (LxWxH) 600g 900g			
Case Size Weight	PBB2S-13-3.5 PBB2S-13-7 PBB2S-24-3.5	219x114x62mm (LxWxH) 600g 900g 900g			
Case Size Weight Operating Ambie	PBB2S-13-3.5 PBB2S-13-7 PBB2S-24-3.5	219x114x62mm (LxWxH) 600g 900g 900g -10°C to 70°C			
Case Size Weight Operating Ambio Derating	PBB2S-13-3.5 PBB2S-13-7 PBB2S-24-3.5 ent Temp.	219x114x62mm (LxWxH) 600g 900g -10°C to 70°C -2.5%/°C above 40°C			

\*2 BW=20MHz

Battery Reverse Polarity Protection

**Short Circuit Protection** 

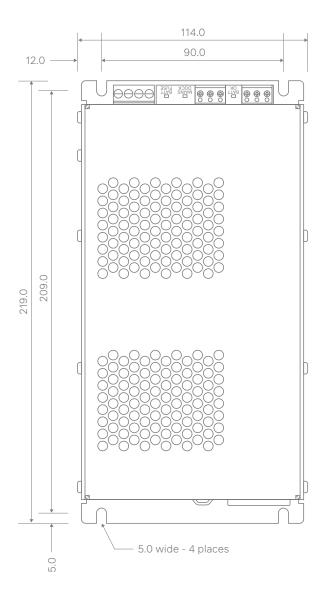
Self-resetting battery fuse

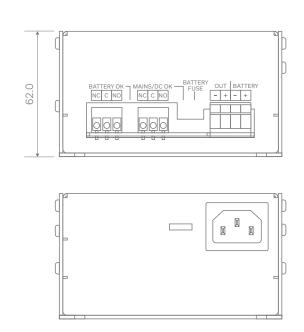
Indefinite

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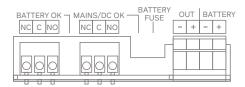


## **TECHNICAL DRAWINGS**





#### **TERMINATIONS**



Note: Alarm terminations show state in normal non-alarm conditions

#### NOTES:

- 1. AC Mains Termination:
- 10A IEC60320 C14 Appliance Inlet
- 2. Output and Battery Terminations:
  - 4W Pluggable Screw Terminal Block Suitable for up to 2.5 sq. mm wire
- 3. Alarms Terminations:
  - 3W Screw Terminal Blocks Suitable for up to 1.5 sq. mm wire

# **SELECTION TABLE**

Model Number	Output Voltage	Rated Total Output Current*1	Maximum Load Current	Battery ChargingCurrent	Ripple and Noise* <sup>2</sup>
PBB2S-13-3.5	13.8Vdc	3.5A	3.25A	0.25A typ.	<100mVp-p
PBB2S-13-7	13.8Vdc	7.0A	6.0A	1.0A typ.	<100mVp-p
PBB2S-28-3.5	27.6Vdc	3.5A	3.0A	0.5A typ.	<150mVp-p