

### Features

- 13.8Vdc 3.5A and 7A 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
- 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



### Specifications

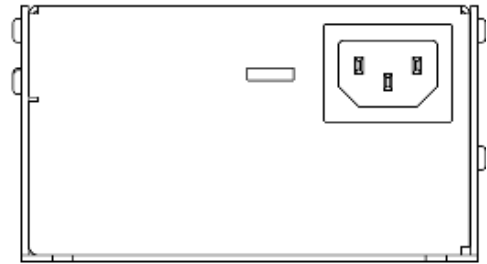
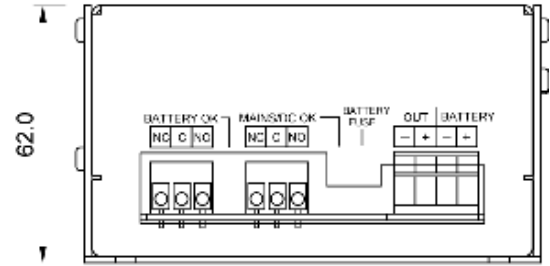
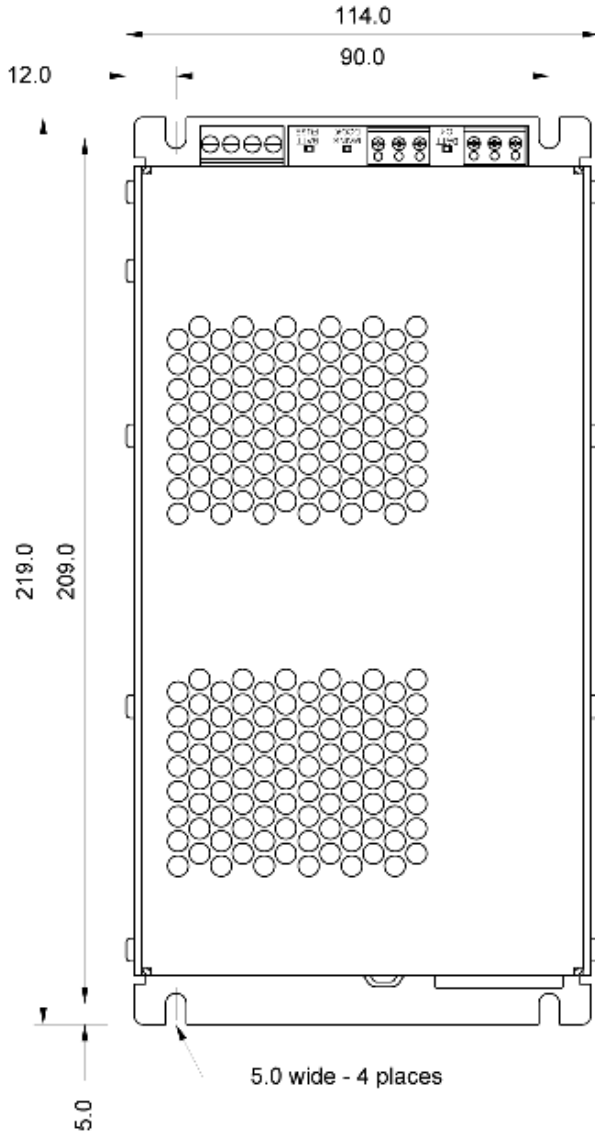
INPUT	
Nominal Voltage	100-240VAC
Current	PBB2S-13-3.5: 1.3A PBB2S-13-7: 2.8A
Nominal Frequency	50-60Hz
Power Factor	Conforms to EN61000-3-2
OUTPUT AC MAINS OPERATION	
Voltage	13.8VDC
Current *	See table * Sum of load + battery charging current.
Battery Charging Current	See table
Ripple & Noise **	< 100mVpp ** BW=20MHz
Short Circuit Protection	Hiccup, non-latching
Load+Battery Charging	Hiccup overcurrent protection, >120% of rated current
Battery Charging	Current limited taper charging
Overvoltage	16V +10%/-5% Hiccup
OUTPUT BATTERY OPERATION	
Voltage Drop Battery to Output	PBBS-13-3.5: 0.47V typ. PBBS-13-7: 0.55V typ.
Short Circuit Protection	Self-resetting battery fuse
Battery Reverse Polarity Protection	Indefinite

MECHANICAL	
Dimensions (LxWxH)	219 x 114 x 62mm
Weight	PBB2S-13-3.5: 600g PBB2S-13-7: 900g
ENVIRONMENTAL	
Operating Temp	-10°C to +70°C
Power De-rating	-2.5%/°C above 40°C
Cooling	Natural Convection
Overtemperature Protection	Automatic self-resetting
DISPLAYS & ALARMS	
Mains/ DC OK	Green LED: ON=OK Voltage-free changeover contact, 30VDC, 7A rating
Battery OK	Green LED: ON=Vbatt >11.5V OFF=Vbatt <10.5V Voltage-free changeover contact, 30VDC, 7A rating
Battery Fuse Fail	Red LED: ON=FAIL
STANDARDS & APPROVALS	
Safety	AS/NZS60950.1, Class I Certificate NSW26927
Isolation	I/P to Output 3.0 kVac, 1 min. I/P to Ground 1.9 kVac, 1 min. O/P to Ground 500 Vac, 1 min.
EMC	AS/NZS CISPR22 Class B

### Selection Table

MODEL NUMBER	OUTPUT VOLTAGE	RATED TOTAL OUTPUT CURRENT	MAXIMUM LOAD CURRENT	BATTERY CHARGING CURRENT
PBB2S-13-3.5	13.8VDC	3.5A	3.25A	0.25A typ.
PBB2S-13-7	13.8VDC	7.0A	6.0A	1.0A typ.

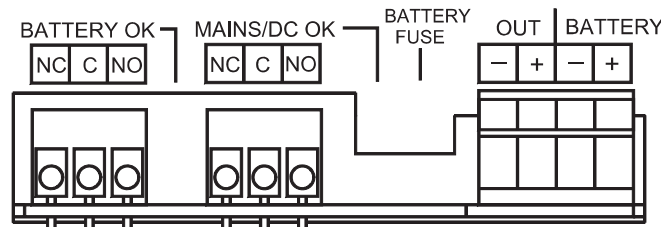
**External View**



**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. Alarm Terminations: 3W Screw Terminal Blocks  
Suitable for up to 1.5 sq. mm wire.

**TERMINATIONS**



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

Available at



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