

# **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
- · 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

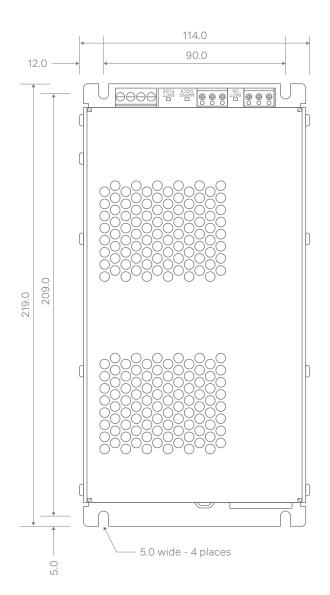
### **SPECIFICATIONS**

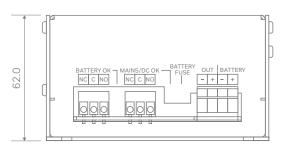
INPUT				
Nominal Voltage	100-240Vac			
Current	PBB2S-13-3.5: 1.3A PBB2S-13-7: 2.8A PBB2S-28-3.5: 2.8A			
Nominal Frequency	50-60Hz			
Power Factor	Conforms to EN61000-3-2			
OUTPUT - AC MAINS OPE	RATION			
Output Voltage	See Table			
Output Current*1	See Table			
Battery Charging Current	See Table			
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.			
Short Circuit Protection	Self-resetting battery fuse			
Battery Reverse Polarity Protection	Indefinite			

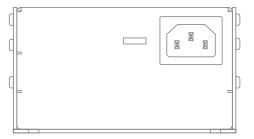
DISPLAYS / AL	ARMS			
Mains/DC OK		Green LED: ON=OK Voltage-free changeover contact, 30Vdc, 7A rating		
Battery OK		Green LED: ON=Vbatt >11.5V, 23.0V OFF=Vbatt <10.5V, 21.0V Voltage-free changeover contact, 30Vdc, 7A rating		
Battery Fuse Fail		Red LED: ON=FAIL		
STANDARDS				
Safety		AS/NZS60950.1, 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 ENVIRON	MENTAL		
Case Size		219x114x62mm (LxWxH)		
Weight PBB2S-13-3.5 PBB2S-13-7 PBB2S-24-3.5		900g		
Operating Ambient Temp.		-10°C to 70°C		
Derating		-2.5%/°C above 40°C		
Cooling		Natural Convection		
Overtemperature Protection		Automatic - Self resetting		
*1 Sum of load + bat *2 BW=20MHz	tery charging currer	nt.		



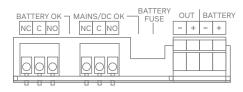
## **TECHNICAL DRAWINGS**







# **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*2
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