

# PBBS Series

35 WATTS LINEAR DC SUPPLY FOR BATTERY BACK UP SYSTEMS

## FEATURES

- Ultra low noise output
- Efficient low dropout linear design
- Output current limiter & short circuit protection
- Independently current limited battery charging output
- DC output OK alarm contacts & LED
- Battery OK alarm contacts & LED



## SPECIFICATIONS

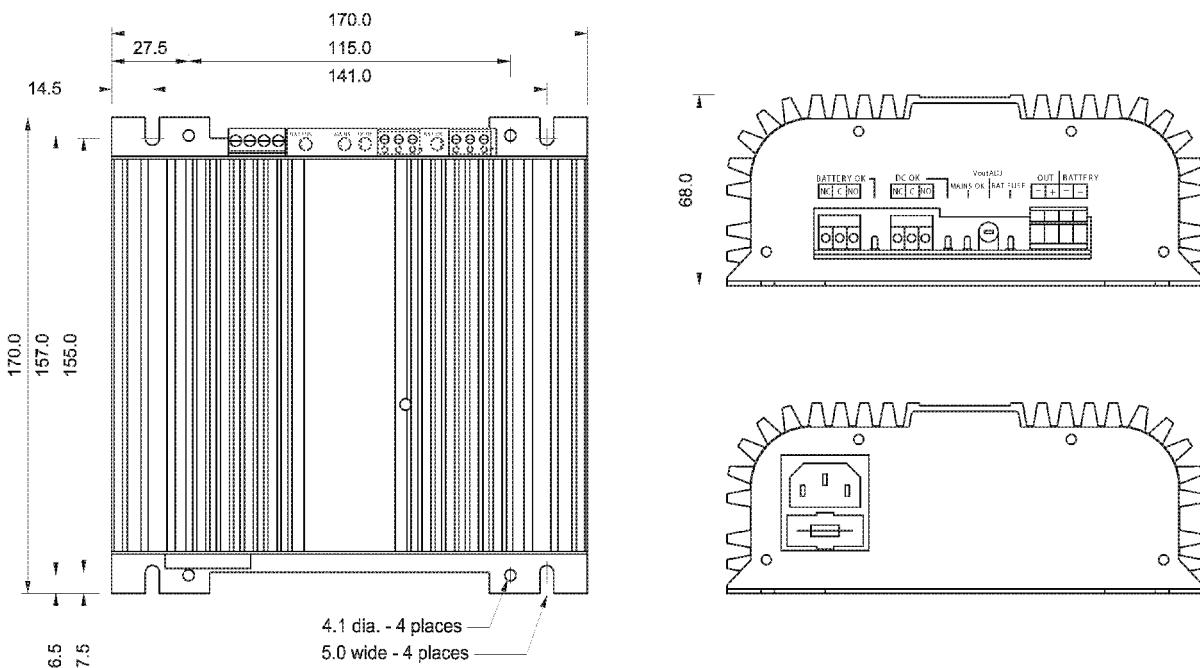
INPUT	
Voltage	220 to 240 Vac
Current	330mA max.
Frequency	50 Hz
OUTPUT	
Voltage	See table
Current	See table
Current limit type - load cct	Fold back current limit
Current limit type - batt. cct	Constant current compensated taper charge
Short circuit protection	Self-resetting polyfuse
Battery reverse polarity protection	Indefinite, self-resetting
Battery to load voltage drop	0.55 V typical
Ripple & noise	< 10 mV peak to peak
ENVIRONMENTAL	
Operating temperature	0 to 50°C ambient with derating
Over-temperature protection	Automatic & self-resetting
Cooling requirement	Natural convection

STANDARDS & APPROVALS	
Safety	Complies with AS/NZS61558.1:2000 for Stationary Transformers; non-inherently short cct. proof NSW Office of Fair Trading Approval
Isolation: i/p-o/p i/p-ground o/p-ground	3000 vac for 1 minute 1500 vac for 1 minute 500 vac for 1 minute
EMC	Complies AS/NZS/CISPR22:2000 Class B Emissions, Complies ACA EMC Scheme, Safety & EMC Regulatory Compliance Marked
ALARMS & INDICATIONS	
Mains ON	Indicated by green LED
DC OK alarm	Indicated by voltage-free changeover relay contacts & green LED: ON=OK
Battery low alarm	Indicated by voltage-free changeover relay contacts & green LED: ON=OK Vbatt >11.5 V = battery OK Vbatt < 10.5V = battery low
Battery fuse fail	Red LED: ON=FAILED
MECHANICAL	
Case size	170L x 170W x 68H mm
Weight	2.5 kg

## SELECTION TABLE

MODEL NUMBER	VDC	ITOTAL	ILOAD	IBATT	OUTPUT POWER
PBBS-13-2.5	13.8V	2.5A	2.25A	0.25A	35W

### TECHNICAL ILLUSTRATIONS



# PBBS Series

## 70 WATTS LINEAR DC SUPPLY FOR BATTERY BACK UP SYSTEMS

### FEATURES

- Ultra low noise output
- Efficient low dropout linear design
- Output current limiter & short circuit protection
- Independently current limited battery charging output
- DC output OK alarm contacts & LED
- Battery OK alarm contacts & LED



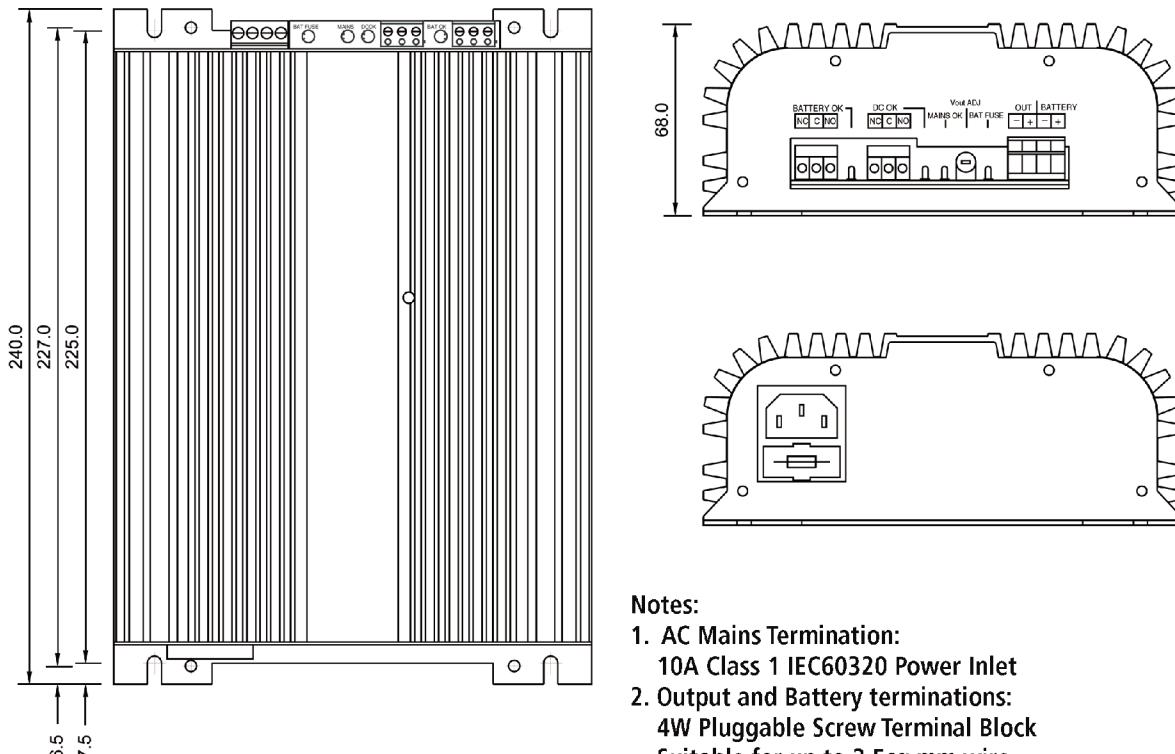
### SPECIFICATIONS

INPUT		STANDARDS & APPROVALS	
Voltage	220 to 240 vac	Safety	Complies with AS/NZS61558.1:2000 for Stationary Transformers; non-inherently short cct. Proof NSW Office of Fair Trading Approval (pending Oct.05)
Current	500mA max.	EMC	Complies AS/NZS/CISPR22:2000 Class B Emissions, Complies ACA EMC Scheme, Safety & EMC Regulatory Compliance Marked
Frequency	50 Hz	Isolation: i/p-o/p i/p-ground o/p-ground	3000 vac for 1 minute 1500 vac for 1 minute 500 vac for 1 minute
OUTPUT		ALARMS & INDICATIONS	
Voltage	See table	Mains ON	Indicated by green LED
Current	See table	DC OK alarm	Indicated by voltage-free changeover relay contacts & green LED: ON=OK
Current limit type - load cct	Fold back current limit	Battery low alarm	Indicated by voltage-free changeover relay contacts & green LED: ON=OK $V_{batt} > 11.5$ V = battery OK $V_{batt} < 10.5$ V = battery low
Current limit type - batt. cct	Constant current compensated taper charge	Battery fuse fail	Red LED: ON=FAILED
Short circuit protection	Self-resetting polyfuse	MECHANICAL	
Battery reverse polarity protection	Indefinite, self-resetting	Case size	240L x 170W x 68H mm
Battery to load voltage drop	0.65 V typical	Weight	4 kg
Ripple & noise	< 10 mV peak to peak	SELECTION TABLE	
ENVIRONMENTAL			
Operating temperature:	0 to 50°C ambient with derating		
Over-temperature protection:	Automatic & self-resetting		
Cooling requirement:	Natural convection		

### SELECTION TABLE

MODEL NUMBER	VDC	ITOTAL	ILOAD	IBATT	OUTPUT POWER
PBBS-13-5	13.8V	5A	4.5A	0.5A	70W

### TECHNICAL ILLUSTRATIONS



**Notes:**

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