

PBLDU Series

70-280 WATTS DC UPS LINEAR

FEATURES

- Uninterrupted DC UPS
- Separate load and battery outputs
- Superior line & load regulation
- Highly efficient linear design
- Rack or chassis mount
- C-tick approved
- Battery charging management system
- DC OK and Battery OK alarm
- Low voltage disconnect
- Internal battery back up option



SPECIFICATIONS

INPUT	
Input voltage	240VAC $\pm 5\%$ full output current. Other voltages on request
Frequency	50Hz–60Hz
Input protection	Yes
Input fuse	Yes

OUTPUT	
Output voltage	See table
Output currents	See table
Output ripple	0.5mV pk-pk max. (100Hz–120Hz)
Line regulation	$\pm 0.1\%$ max.
Load regulation	$\pm 0.5\%$ max.
Temperature coefficient	± 50 ppm per $^{\circ}\text{C}$ typical (± 250 ppm per $^{\circ}\text{C}$ max.)
Transient response	$< 3\%$, 0.5ms (50% load change, recover to 2% of V out)
Overvoltage protection	SCR crowbar, factory set at 120% Vout $\pm 5\%$
Overcurrent protection	Foldback current limiting 115% +7% max.

ENVIRONMENTAL	
Operating temperature	0 $^{\circ}\text{C}$ to 50 $^{\circ}\text{C}$ at full load
Derating	50 $^{\circ}\text{C}$ to 70 $^{\circ}\text{C}$ derate linearly to 40%
Cooling	Natural convection

OPERATING	
Isolation	Primary to secondary: 3.5kV 1 min
Efficiency	60%–80% depending on output voltage
Batteries	12V, 6.5Ah sealed lead acid batteries are optional within the pbldu-xxcxx-rm rack mount enclosure.
Battery capacity	12V 26AH Maximum 24V 13AH Maximum 48V 6.5AH Maximum
High Temperature	Thermal shutdown. Auto electronic reset

VISUAL LED INDICATORS	
DC OK Indicator	Yes
Battery Ok Indicator	Yes
Battery on line indicator	Yes
Battery status indicator	Charge: Green, Discharge: Red
Temperature shutdown	Optional

VOLT FREE ALARM CONTACTS	
DC OK	Yes
Battery Ok	Yes
Battery on line	Yes

STANDARDS AND APPROVALS	
Safety	AS3260. Austel approved
C-Tick/EMC standards	AS/NZS CSIPR11 Group 1 Class B

MECHANICAL	
Dimensions	RM Rack Mount: 19"x2Ux416mm RM-S Rack Mount Short 19"x2Ux234mm WM Wall Mount: 371x322x123mm CM Chassis Mount: 322x187x90mm
Connections	Rack Mount: IEC input Wall & Chassis Mount: 7-way 9.5mm barrier terminal block
Alarm contacts	Rack Mount: Barrier terminal block Wall & Chassis Mount: 2.54mm PCB header

OPTION	
Rack mount short enclosure	Short enclosure supplied for larger external battery capacity. Ad - S to rack mount models.

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SELECTION TABLE

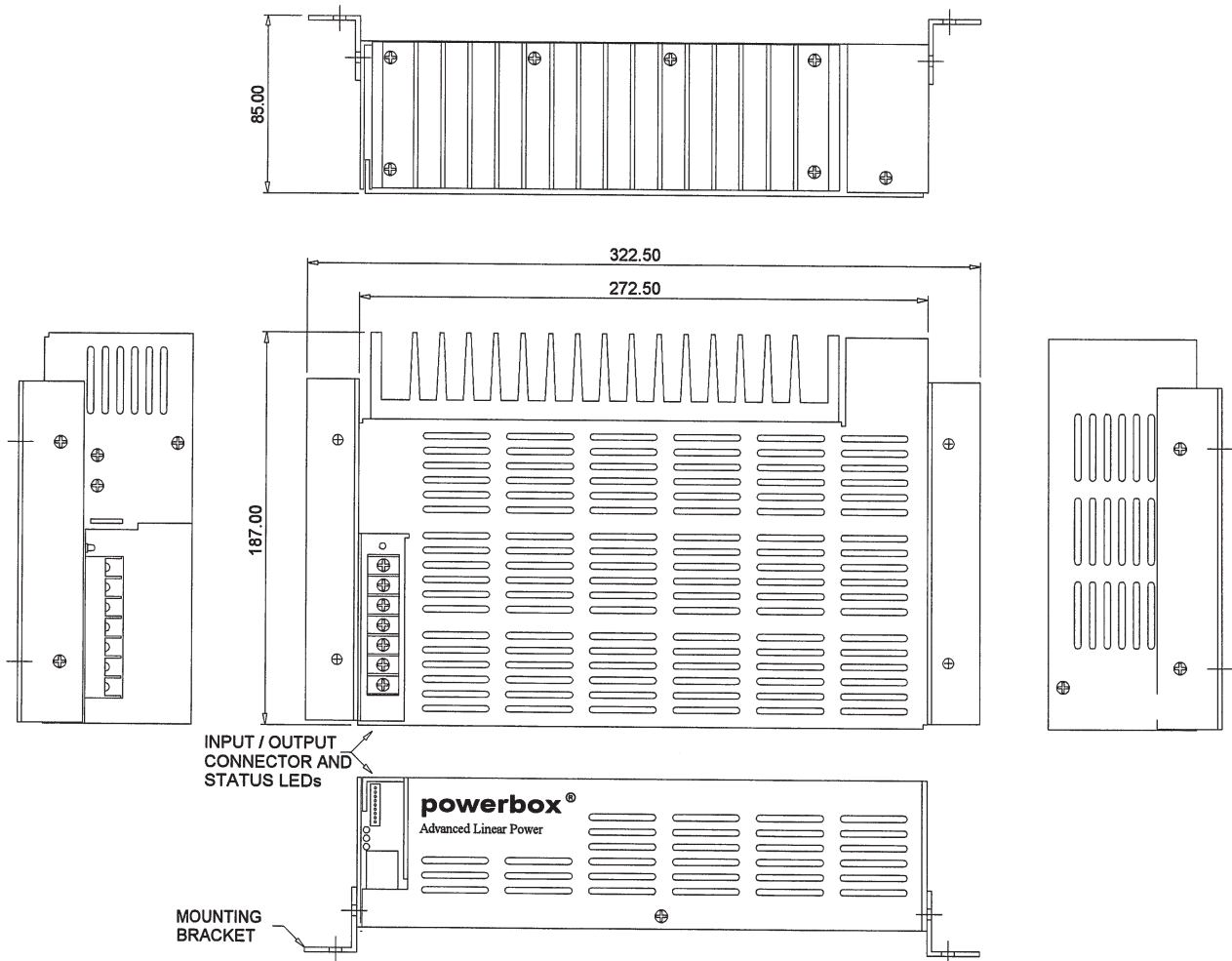
During mains operation the PBLDU series can supply load current from the selection table and provide controlled charge current to the battery. The unit has additional capacity to supply 175% surge current if required by the load. When operating on battery back up only the stated load current can be supplied.

MODEL NUMBER	VDC	OUTPUT		OUTPUT POWER
		ILOAD	IBATT	
PBLDU-12C05CM	13.8V	3.75A	1.25A	70W
PBLDU-12C05RM	13.8V	3.75A	1.25A	70W
PBLDU-12C10RM	13.8V	7.5A	2.5A	140W
PBLDU-12C10RM	13.8V	7.5A	2.5A	140W
PBLDU-24C05CM	27.6V	3.75A	1.25A	140W
PBLDU-24C05RM	27.6V	3.75A	1.25A	140W
PBLDU-24C10CM	27.6V	7.5A	2.5A	280W
PBLDU-24C10RM	27.6V	7.5A	2.5A	280W
PBLDU-48C05CM	55.2V	3.75A	1.25A	280W
PBLDU-48C05RM	55.2V	3.75A	1.25A	280W

Note: To order models with batteries included. Please add "-BAT" at end of model number. (Rack Mounted Version Only)

TECHNICAL ILLUSTRATIONS

CHASSIS MOUNT

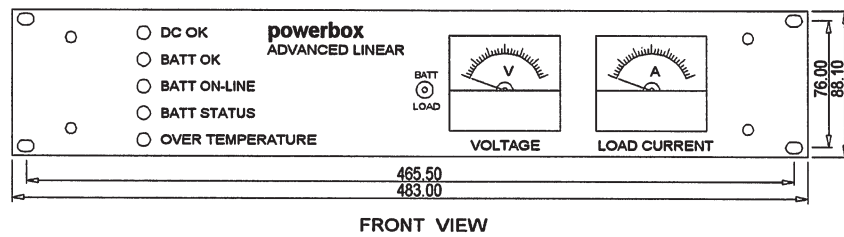
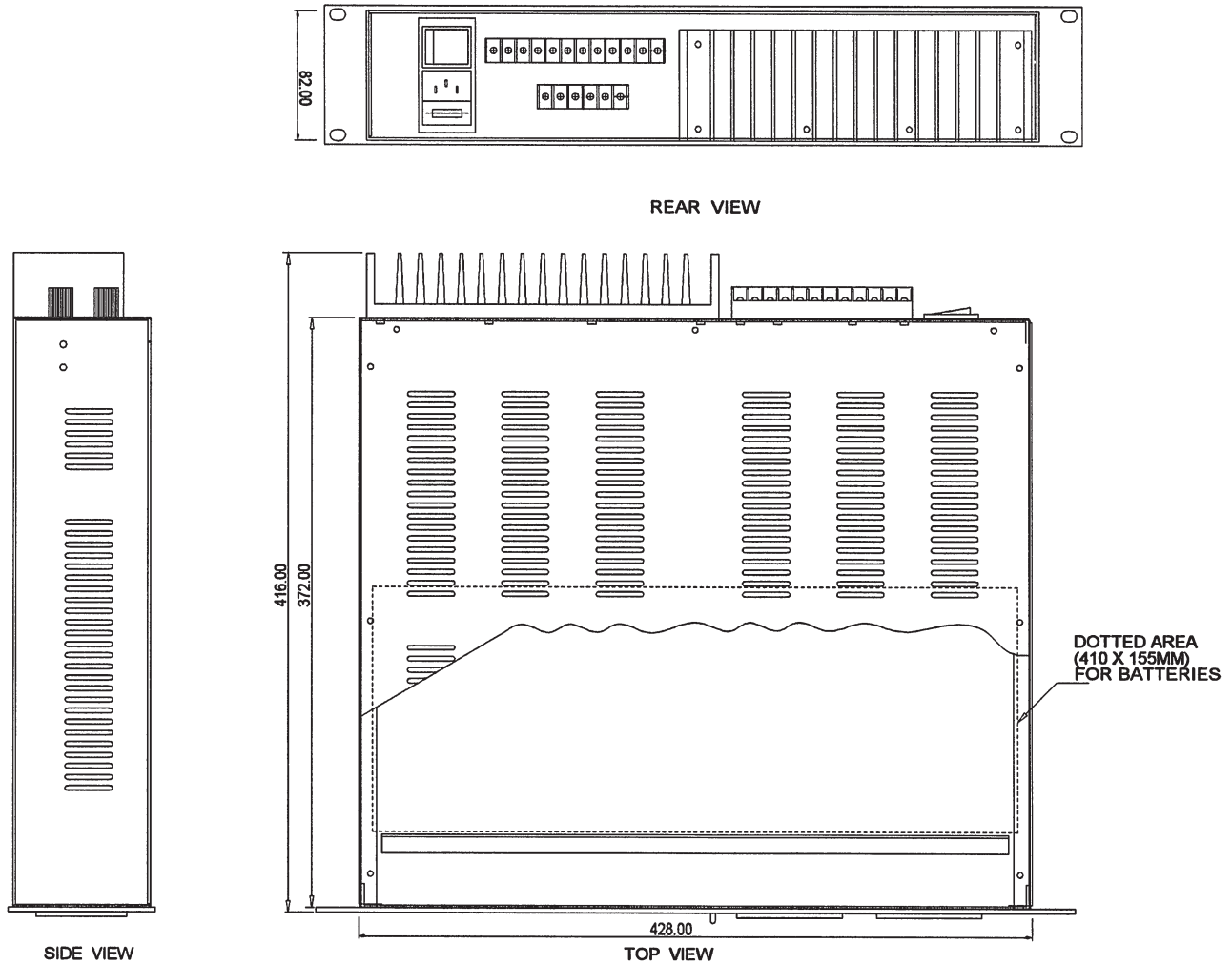


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TECHNICAL ILLUSTRATIONS

RACK MOUNT - Including batteries



RACK MOUNT SHORT-S

