

PBNH Series

80W MOBILE CONVERTERS

Features

- Easy to mount and terminate
- Input/output fully isolated
- Short circuit protected
- Thermal protected
- Low noise
- High surge currents



Specifications

INPUT

Input Voltage	12VDC (10–16) 24VDC (18–32) 36VDC (30–48) 48VDC (40–64) 110VDC (72–140)
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OUTPUT

Output Voltage	See selection table
Output Current	See selection table
Output Voltage Adjustment	10% internal pot
Output Power	Typically 80W continuous, 110 intermittent
Noise	Below CISPR limit
Ripple & Noise	Typically 10mV rms at nominal load and input voltage
Load Regulation	5% at nominal input voltage
Line Regulation	5% over input range

OPERATING

Isolation	Input and output are electrically isolated from chassis and input is isolated from output Isolation voltage – 1000VDC
Switching Frequency	Approx. 50kHz
Efficiency	Typically 80%-85%
Protection	Reverse input polarity Transorb diode at input Overvoltage protection Short circuit protection Thermal protection Unit will switch off automatically at input over- or undervoltage protection

ENVIRONMENTAL

Operating Temperature	-20°C to 40°C at full load derate linearly to 60°C
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MECHANICAL

Terminals	Input and output have 6.3mm push on spade terminals
Dimensions	135x119x46mm
Weight	0.6kg

STANDARDS AND APPROVALS

C-Tick	AS/NZS CISPR11 Group 1, Class A
EMC standards	EN50082-1
EMI standards	EN50081-1

Selection Table

MODEL NUMBER	INPUT DC	OUTPUT	OUT I (PK)
PBNH-1212L	12V	13.2V 3.0A	4.0A
PBNH-1224L	12V	24V 1.7A	2.2A
PBNH-1248L	12V	48V 0.7A	0.8A
PBNH-2412L	24V	13.2V 6.0A	10.0A
PBNH-2424L	24V	24V 3.0A	4.0A
PBNH-2436L	24V	36V 2.5A	3.0A
PBNH-2448L	24V	48V 1.5A	2.0A
PBNH-3612L	36V	13.2V 6.0A	8.0A
PBNH-3624L	36V	24V 3.0A	4.0A
PBNH-4812L	48V	13.2V 6.0A	8.0A
PBNH-4824L	48V	24V 3.0A	4.0A
PBNH-4848L	48V	48V 1.5A	2.0A
PBNH-8012L	110V	13.2V 6.0A	8.0A
PBNH-8024L	110V	24V 3.0A	4.0A