

# 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)
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

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