

PBK2H Series

70W MOBILE CONVERTERS

Features

- Input/output isolated
- Efficient, typically 80-85%
- Input/Output via screw/clamp terminal block
- Fully regulated output voltage
- Short circuit protection
- Reverse polarity protection
- Input voltage transient protection



Specifications

INPUT

Input voltage	12VDC (10-14-4) 24-48VDC (21-60) 72-110VDC (60-132)
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OUTPUT

Output voltage	See table
Output voltage adjustment	±10% or nominal
Ripple & noise	1% pk-pk
Load regulation	<0.7%, 0%–100% load change
Line regulation	<0.5% over input range
Current limiting	Self resetting on overload
Short circuit protection	Fuse protected

OPERATING

Efficiency	80%–85%
Isolation	Input – Output: 1000VDC; Input – Ground: 1000VDC; Output – Ground: 1000VDC

STANDARDS AND APPROVALS

C-Tick	AS/NZS CISPR11 Group 1, Class A
EMI standards	CISPR 22 compliant

PBK2H

ENVIRONMENTAL

Operating temperature	0°C to 40°C at full load
Derating	Derate 50% linearly to 50°C
Storage temperature	-25°C to 85°C
Humidity	Up to 85% non condensing
Cooling	Convection cooled

MECHANICAL

Dimensions	180x76x35mm
Weight	600g
Mounting	Prepared holes, M5 164x66mm centres and threaded holes M3 164x46mm centres
Connections	Terminal block screw clamp max. wire 4mm ²

Selection Table

MODEL NUMBER	VOLTAGE NOMINAL	VOLTAGE RANGE	PRESET VOLTS	VOLTS RANGE	ADJ RANGE	CONT AMPS
PBK2H-1212L	12	10 – 14.4	13.8	11.8 – 14.0		5.0
PBK2H-1224L	12	10 – 14.4	24.0	23.5 – 28.0		3.0
PBK2H-1248L	12	10 – 14.4	48.0	47.0 – 56.0		1.5
PBK2H-3612L	24..48	21 – 60	13.8	11.8 – 14.0		5.0
PBK2H-3624L	24..48	21 – 60	24.0	23.5 – 28.0		3.0
PBK2H-2448L	24	21 – 60	48.0	47.0 – 56.0		1.5
PBK2H-9012L	72..110	60 – 132	13.8	11.8 – 14.0		5.0
PBK2H-9024L	72..110	60 – 132	24.0	23.5 – 28.0		3.0
PBK2H-9048L	72..110	60 – 132	48.0	47.0 – 56.0		1.5