

PB261 Series

200-500 WATTS DC/DC SINGLE OUTPUT

Features

- Rugged DC/DC converter for industrial applications
- 24 or 48Vdc input / 12, 24 or 48Vdc output
- 200 to 500W output.
- Parallel operation to 2kW
- Input reverse polarity protection
- Input overvoltage and undervoltage lockout
- Overtemperature protection
- Adjustable output voltage
- DC OK alarm LED and voltage-free contact
- Low RF emissions



Specification

INPUT

Input voltage	24Vdc (18-30Vdc) 48Vdc (36-60Vdc)
Undervoltage lockout	24V: 17.2Vdc 48V: 30Vdc
Overvoltage lockout	24V: 37.8Vdc 48V: 78.8Vdc

OUTPUT

Output voltage	See Table
Voltage adjustment range	±8%
Output current	See Table
Output power	See Table
Ripple & noise	Typ. See Table BW=20MHz
Line regulation	0.2% typ. over input range
Load regulation	12 and 24V: 2% typ. 48V: 5% typ.
Overvoltage protection	12V: 15Vmax. 24V: 29Vmax. 48V: 58Vmax.
Overcurrent protection	120% of rating typ.

DISPLAYS / ALARMS

DC OK	Green LED: ON=OK Voltage-free changeover contact (32V, 1A)
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ENVIRONMENTAL

Operating temperature	0 – 40°C
Relative humidity	5 – 90% (non-condensing)
Cooling	Thermostatically Controlled Fan

OPERATING

Efficiency	79 – 84% typ.
Load sharing	±5%
Isolation	In/Out 4243Vdc, 1 min. In/Gnd 2121Vdc, 1 min. Out/Gnd 707Vdc, 1 min.
Overtemperature protection	100°C typ.

STANDARDS

Safety standards	Complies with AS/NZS60950:2000
C-tick	AS/NZS CISPR11 Group 1, Class A

MECHANICAL

General	Chassis mount enclosure
Dimensions	247x176x70mm (LxWxH)
Input terminations	40A M4 Screw Terminals
Output terminations	40A M4 Screw Terminals
Alarm termination	Pluggable Screw Terminal Blocks for 1.5 mm ² wire
SYNC port (parallel operation)	Two RJ-12 6/6 sockets

Selection Table

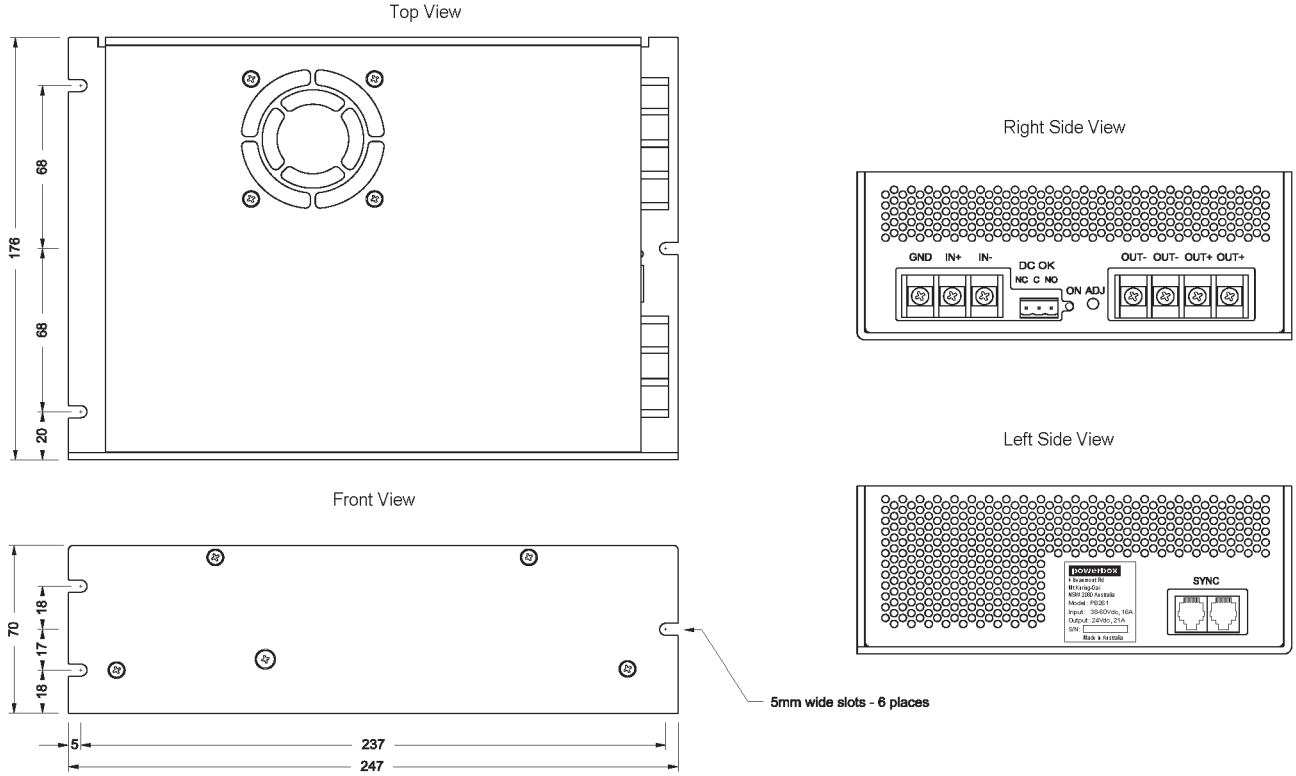
MODEL NUMBER	INPUT	OUTPUT	RIPPLE & NOISE	POWER
PB261-2412E	18-30V	12V 16.7A	50mV	200W
PB261-2424E	18-30V	24V 8.3A	45mV	200W
PB261-2448E	18-30V	48V 4.2A	50mV	200W
PB261-2412T	18-30V	12V 33.3A	30mV	400W
PB261-2424T	18-30V	24V 16.7A	25mV	400W
PB261-2448T	18-30V	48V 7.1A	25mV	340W
PB261-4812S	36-60V	12V 20.8A	80mV	250W
PB261-4824S	36-60V	24V 10.4A	50mV	250W
PB261-4848E	36-60V	48V 4.6A	60mV	220W
PB261-4812U	36-60V	12V 41.7A	40mV	500W
PB261-4824U	36-60V	24V 20.8A	35mV	500W
PB261-4848T	36-60V	48V 9.2A	25mV	440W

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Technical Illustrations

EXTERNAL VIEW



TERMINATIONS

