

## FEATURES

- Wide input voltage from 18V to 36V
- Stable output voltage is 12V
- 100% full rated power
- 100% full stable output Current
- High efficiency up to 95%
- Waterproof sealed
- Non-isolated
- Cooling by free air convection
- Surface mountable
- 2-year warranty
- Over current protection, Over voltage protection
- Over temperature shutdown protection
- According to: ISO 7637-2:2004 IP68

model	input voltage range (Vdc)	output voltage (Vdc)	output current typ (A)	output power max (W)	ripple and noise typ (mVp-p)	efficiency typ (%)
B20-24-12	18-36	12	20	240	120	95

Note: All specifications measured at 25°C, nominal input voltage, and full load unless otherwise noted.

## INPUT

Parameter	Test conditions or description	Min	Typ	Max	Units
Operating input voltage	48 V input	18	24	36	Vdc

## OUTPUT

Parameter	Test conditions or description	Min	Typ	Max	Units
Line regulation	measured from high line to low line			±0.2	%
Load regulation	measured from full load to zero load			±0.2	%
Voltage accuracy				±1.5	%
Adjust range		11.95	12	12.05	V
Temperature coefficient			±0.03		%/°C

Power Conversion Solutions from 1W to 200KW

## PROTECTIONS

Parameter	Test conditions or description	Min	Typ	Max	Units
Output over voltage protection	%Vo	115		140	%
Short circuit protection	Continuous				
Current limit	% nominal output current	110	120	130	%
Thermal shutdown case temp			110		°C
Cooling	free air convection				
Fuse	built in PCB		20		A

## SAFETY AND COMPLIANCE

Parameter	Test conditions or description
Safety approvals	EN 61000-6-3:2007/A1 :2011/AC:2012 EN 55014-1:2006/A2:2011 EN 60950-1:2006/AC:2011
Enclosures	IP68

## ENVIRONMENTAL

Parameter	Test conditions or description	Min	Typ	Max	Units
Case operating temperature		-40	25	85	°C
Ambient temperature		-20		60	°C
Storage temperature		-40		105	°C
Humidity	non-condensing			95	%

## DERATING CURVE



Power Conversion Solutions from 1W to 200KW

## MECHANICAL

Parameter	Test conditions or description	Min	Typ	Max	Units
Dimensions (L x W x H)	(74 x 74 x 31 mm)				MM
Wire length	18				cm
Case material	aluminum				
Weight			280		grams
Package	1pcs/box, 50pcs/carton				
Carton measurement	51.5*34.5*10.5cm				cm

## MECHANICAL DRAWING

Units: mm



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