

FEATURES

- Non-isolated
- Wide input voltage from 18V to 35V
- Stable output voltage is 12V
- 100% full rated power
- 100% burn-in test
- High efficiency up to 94%
- Cooling by free air convection
- Surface mountable
- 2-year warranty
- IP68 waterproof, Epoxy potting, Anti-vibration, Dustproof
- Over current protection, Over voltage protection
- Over temperature protection
- According to: EN 61000-6-3:2007/A1:2011/AC:2012
EN 55014-1:2006/A2:2011 EN 60950-1:2006/AC:2011

model	input voltage range (Vdc)	output voltage (Vdc)	output current typ (A)	output power max (W)	ripple and noise typ (mVp-p)	efficiency typ (%)
B05-24-12A	18-35	12	5	60	120	94

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		18	24	35	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		11.9	12	12.1	V
Temperature coefficient			±0.03		%/°C
No load current			≤ 0.01		A

PROTECTIONS

Parameter	Test conditions or description	Min	Typ	Max	Units
Output over voltage protection	%Vo	115		140	%
Output short circuit protection	Continuous				
Current limit	% nominal output current	100	110	120	%
Thermal shutdown case temp			85		°C
Cooling	Free air convection				
Fuse	built in PCB		5		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

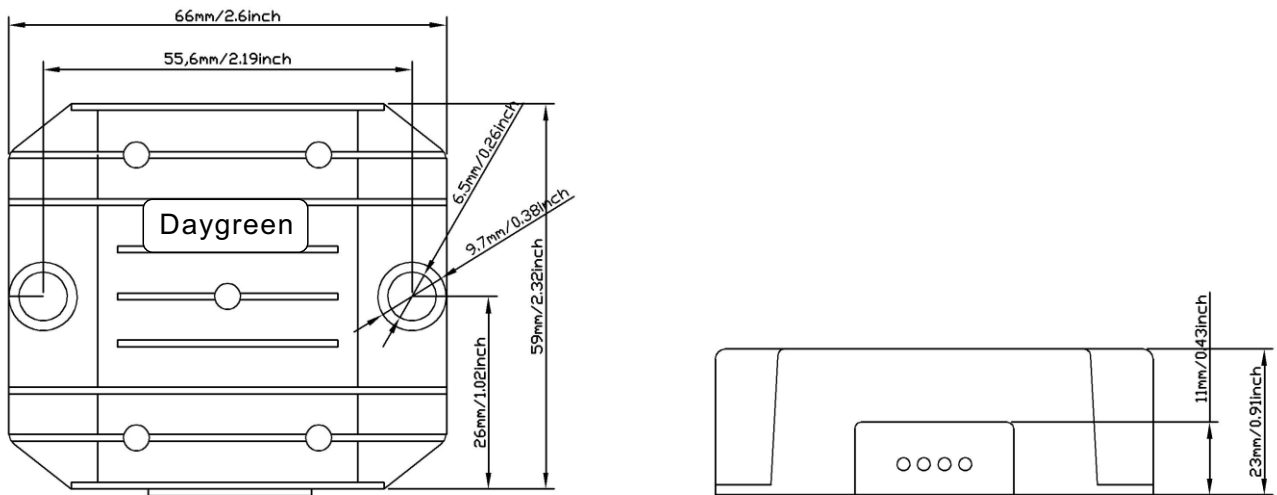


Power Conversion Solutions from 1W to 200KW

MECHANICAL

Parameter	Test conditions or description
Dimensions (L x W x H)	66 x 59 x 23mm 2.6x2.32x0.91inch
Wire length	180mm/7.09inch
Case material	Aluminum
Net weight	150g/0.33lb
Package	1pcs/box, 100pcs/carton
Shipping dimensions	51*35.5*19cm/20.08*13.98*7.48inch
Shipping weight	15.9kg/35.05lb

MECHANICAL DRAWING



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