

## 12V to 24V 15A 360W DC-DC CONVERTER, NON-ISOLATED

### FEATURES

- ✓ Wide input voltage from 11V to 16V
- ✓ Stable output voltage is 24V
- ✓ 100% full rated power
- ✓ 100% full stable output Current
- ✓ High efficiency up to 95%
- ✓ Waterproof sealed
- ✓ Cooling by free air convection
- ✓ Surface mountable
- ✓ 1 year warranty
- ✓ 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 IP68

model	input voltage	output	output current	output power	ripple and noise	efficiency
	range (Vdc)	voltage (Vdc)	typ (A)	max (W)	typ (mVp-p)	typ (%)
H15-12-24	11-16	24	15	360	240	95

Notes: 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	12 V input	11	12	16	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		23.9	24	24.1	V
temperature coefficient			±0.03		%/°C

### PROTECTIONS

Parameter	Test conditions or description	Min	Typ	Max	Units
output over voltage protection	%Vo				%
short circuit protection	Continuous				
current limit	% nominal output current	105	110	125	%
thermal shutdown case temp.			85		°C
cooling	free air convection				
fuse	built in PCB		60		A

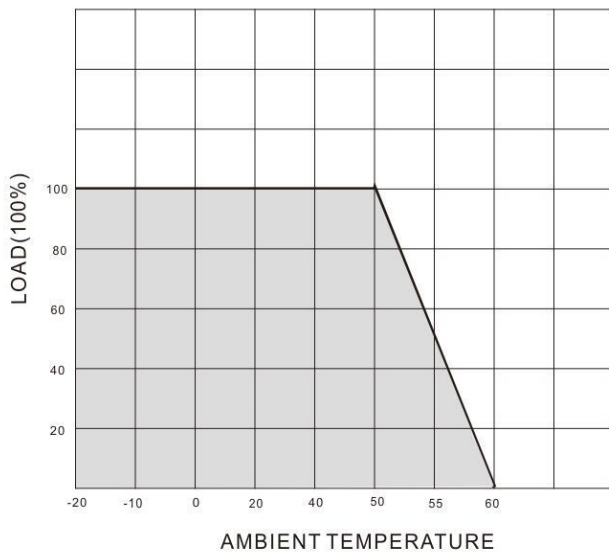
## SAFETY AND COMPLIANCE

Parameter	Test conditions or description	Min	Typ	Max	Units
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



## MECHANICAL

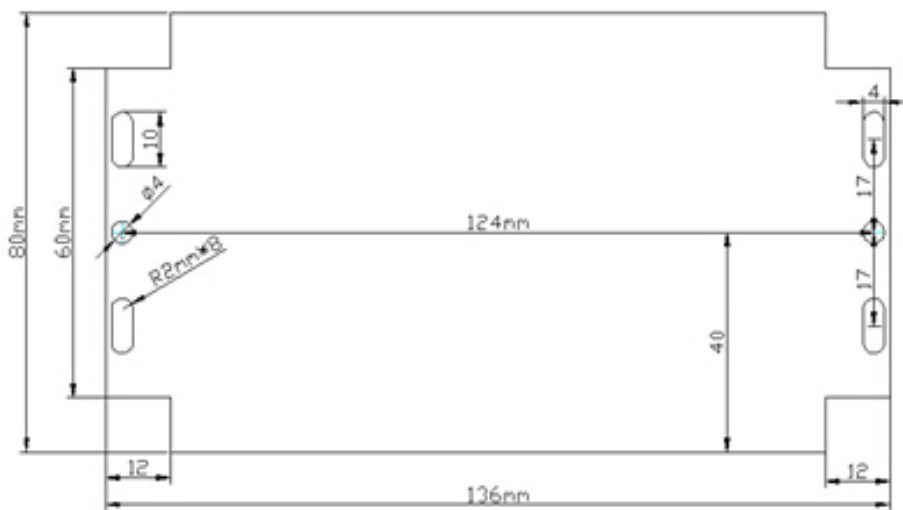
Parameter	Test conditions or description	Min	Typ	Max	Units
dimensions ( L x W x H )	5.3 x 3.15 x 1.97 (130 x 80 x 50 mm)				inch
case material	aluminum				
weight			700		grams
Package	1pcs/box, 30pcs/carton				
Carton measurement	49*35.5*21cm				

## PHOTOS



## MECHANICAL DRAWING

Units: mm



## DIAGRAM WIRING

INPUT+ TO BATTERY+

INPUT- TO BATTERY-

OUTPUT+ TO LOAD+

OUTPUT- TO LOAD-

**Notes: Never reverse the input polarity, or it burns the converter.**

## REVISION HISTORY

rev.	description	date
1.0	initial release	5/12/2014
2.0	Revision	Feb 6, 2018

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Power conversion solutions from 1W to 50kW