

Input voltage	Output voltage	Output current	Output power	Efficiency	ripple and noise
55-90	48	20 Amps	960 Watts	95	120



Features

- Wide input voltage from 55V to 90V
- Stable output voltage is 48V
- 100% full rated power
- 100% full stable output Current
- High efficiency up to 95%
- IP68 waterproof, Epoxy potting, Anti-vibration, Dustproof
- Cooling by free air convection
- Surface mountable
- 3 Months warranty
- Over current protection, Over voltage protection
- Over temperature shutdown, Output short circuit protection

Model naming method
RW-1427-72-48V-960

RW-1427: SKU NAME
72V: Input voltage
48V : Output voltage
960W: Output Power

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

INPUT

Parameter	Test conditions or description	Min	Typ	Max	Unit
operating input voltage	60V/72 V input	55	60V/72V	90	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		47.9	48	48.1	V
temperature coefficient			±0.03		%/°C

PROTECTIONS

Parameter	Test conditions or description	Min	Typ	Max	Unit
output over voltage protection	%Vo	115		140	%
current limit	% nominal output current	110	120	130	%
thermal shutdown case temp.			80		°C
cooling	free air convection				
fuse					

SAFETY AND COMPLIANCE

Parameter	Test conditions or description	Min	Typ	Max	Unit
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	V

MECHANICAL

Parameter	Test conditions or description	Min	Typ	Max	Unit
dimensions	(103 x 113 x 35 mm)				MM
case material	aluminum				
weight			680		gram
Package					
Carton measurement					cm

DIAGRAM WIRING

INPUT+ TO BATTERY+

INPUT- TO BATTERY-

OUTPUT+ TO LOAD+

OUTPUT- TO LOAD-

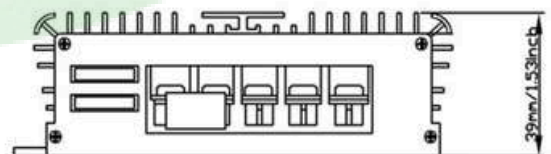
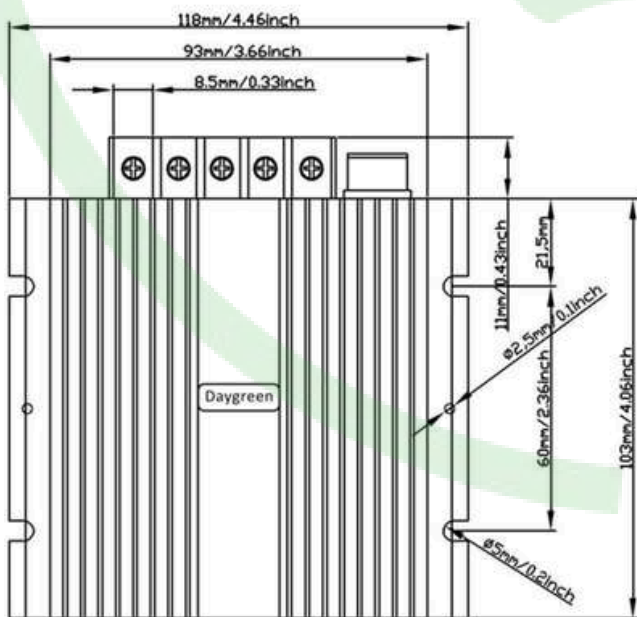
Notes: Never reverse the input polarity, or it burns the converter.

REVISION HISTORY

rev.	description	date
1.0	initial release	April 2022
2.0	revision	Nov 2024

Thermal Consideration

Sufficient airflow should be provided to help ensure reliable operating of the RW-1427-72-48V-960W. Therefore, thermal components are mounted on the top surface of the RW-1427-72-48V-960W to dissipate heat to the surrounding environment by conduction, convection, and radiation. Proper airflow can be verified by measuring the temperature at the middle of the base plate.



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