

30 Watt, SF30 Series, DC-DC Converter, (Single or Dual Output)

ALL PSU LTD
Electronic Power Solutions

- Extra Wide 4:1 Input Ranges
- Built In EMI Filter
- Isolated Output 1600 Volts
- Low Profile Encapsulated 2 x 1.6" Case
- Remote on/off Control
- Output Trim
- Short Circuit Protection
- High Efficiency
- 2 Year Warranty



Size 50.8 x 40.6 x 11.9 mm

Specification

Input Range.....	4:1 extra wide input, 10~40 or 18~75 Volts DC
Output.....	Single or dual, see table below (+/-10% trimmable)
Line Regulation.....	+/-0.5%, across full input range
Load Regulation.....	Single O/P: +/-1% (from 10~100% load)
Efficiency.....	80% to 87% dependent on model
Switching Frequency.....	250 kHz
Short Circuit Protection.....	Hiccup mode, auto-recovery
I/P~O/P Isolation Voltage.....	1600 VDC, all models
Operating Temperature.....	-25~+40 °C @ full load, Derates to 60% @ +70 °C
Cooling.....	Free air convection
Storage Temperature.....	-55 ~ +105 °C
Case Material.....	Nickel coated Copper, (Base: plastic) (6 sided shield)
MTBF.....	>550 khrs (MIL-HDBK-217F) @ 25 °C
Weight.....	58 g

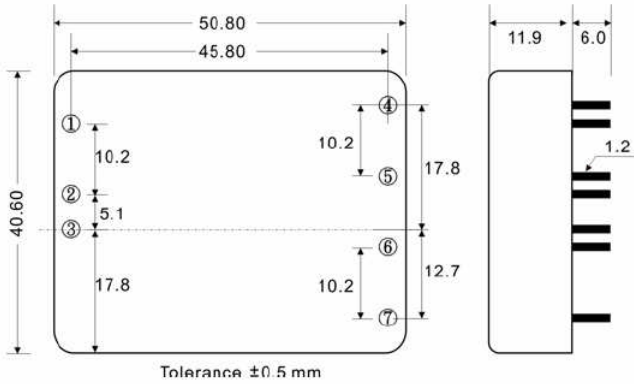
Models and Ratings

Model	Input VDC	Output Volts	Output Current
SF30-24-2.5S	10~40	2.5 V	6.0 A
SF30-24-3.3S	10~40	3.3 V	6.0 A
SF30-24-5S	10~40	5.0 V	6.0 A
SF30-24-12S	10~40	12.0 V	2.5 A
SF30-24-15S	10~40	15.0 V	2.0 A
SF30-24-24S	10~40	24.0 V	1.25 A
SF30-24-5D	10~40	+/-5.0 V	+/-3.0 A
SF30-24-12D	10~40	+/-12.0 V	+/-1.25 A
SF30-24-15D	10~40	+/-15.0 V	+/-1.0 A
SF30-48-2.5S	18~75	2.5 V	6.0 A
SF30-48-3.3S	18~75	3.3 V	6.0 A
SF30-48-5S	18~75	5.0 V	6.0 A
SF30-48-12S	18~75	12.0 V	2.5 A
SF30-48-15S	18~75	15.0 V	2.0 A
SF30-48-24S	18~75	24.0 V	1.25 A
SF30-48-5D	18~75	+/-5.0 V	+/-3.0 A
SF30-48-12D	18~75	+/-12.0 V	+/-1.25 A
SF30-48-15D	18~75	+/-15.0 V	+/-1.0 A

Please See Next Page For Mechanical Drawing & Pin Out

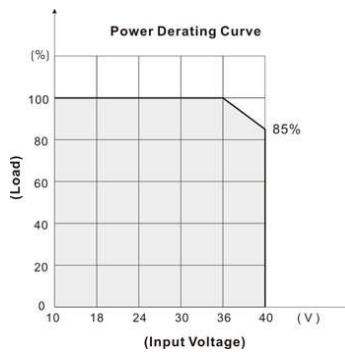
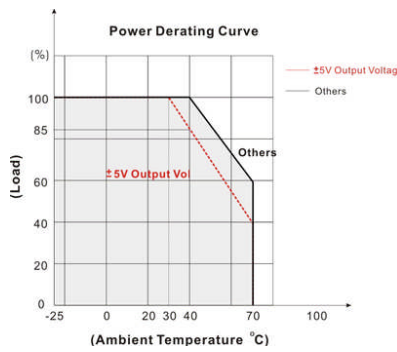
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Mechanical Drawing and Pin-Out (Top View)

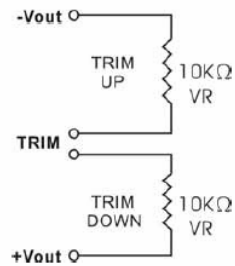


Pin No.	Function	
	Single Output	Dual Output
1	Remote On/Off	Remote On/Off
2	- V in	- V in
3	+V in	+V in
4	Trim	Trim
5	-DC Out	-DC Out
6	+DC Out	Common
7	No Pin	+DC Out

Output Power Derating



Output Trim

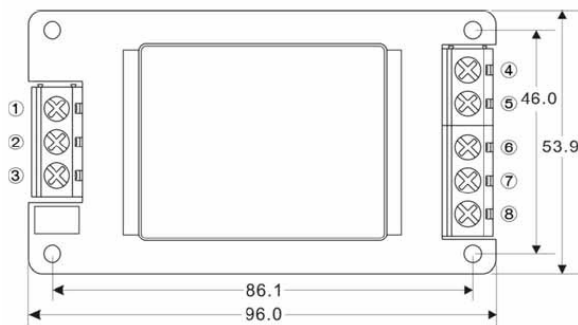


Notes:

Positive logic remote on/off turns the module on during a logic high voltage on the remote on/off pin and off during a logic low.
To turn the power module on and off, the user must supply a switch to control the voltage between the on/off pin and the -V in pin

Alternate Mounting Method

A chassis mount adapter is available for use where a pcb is not available, add "-A2" to the end of the part number (contact ALL PSU sales for prices)



Pinout as per the table above



Specifications may change without notice, E&OE. ALL PSU Terms & Conditions apply.

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