

15 Watt, ST15 Series, DC-DC Converter, (Single & Dual Outputs)

ALL PSU LTD
Electronic Power Solutions

- Wide 2:1 & Extra Wide 4:1 Input Ranges
- Built In EMI Filter
- Isolated Output 1600 Volts
- Low Profile Encapsulated 2 x 1" Case
- Optional Remote on/off Control
- CE Marked & UL Approval
- Short Circuit Protection
- 2 Year Warranty



Size 50.1 x 25.4 x 10.8 mm

Specification

Input Range.....	2 : 1 wide input, 9~18, 18~36 or 36~75 Volts DC 4 : 1 extra wide input 10~40 or 18~75 Volts DC
Output.....	Single and Dual outputs, see table below
Line Regulation.....	+/-0.5%
Load Regulation.....	+/-1%
Efficiency.....	71% to 87% dependent on model (see models table)
Short Circuit Protection.....	Current limit, auto-recovery
I/P~O/P Isolation Voltage.....	1600 VDC, all models
Operating Temperature.....	-25~+70 °C, see derating curve
Cooling.....	Free air convection
Storage Temperature.....	-55 ~ +105 °C
Case Material.....	Nickel coated Copper, non conductive base, 6 sided shield
MTBF.....	>800 khrs (MIL-HDBK-217F) @ 25 °C

Models and Ratings (Single Outputs, please see below for Dual Outputs)

Model	Input VDC	Output Volts	Output Current	Efficiency
ST15-12-3.3S	9~18	3.3 V	3.0 A	77%
ST15-12-5S	9~18	5 V	3.0 A	80%
ST15-12-12S	9~18	12 V	1.25 A	82%
ST15-12-15S	9~18	15 V	1.0 A	84%
ST15-12-24S	9~18	24 V	0.625 A	84%
ST15-24-3.3S	18~36	3.3 V	3.0 A	77%
ST15-24-5S	18~36	5 V	3.0 A	82%
ST15-24-12S	18~36	12 V	1.25 A	85%
ST15-24-15S	18~36	15 V	1.0 A	86%
ST15-24-24S	18~36	24 V	0.625 A	87%
ST15-48-3.3S	36~75	3.3 V	3.0 A	79%
ST15-48-5S	36~75	5 V	3.0 A	83%
ST15-48-12S	36~75	12 V	1.25 A	86%
ST15-48-15S	36~75	15 V	1.0 A	87%
ST15-48-24S	36~75	24 V	0.625 A	87%
ST15-24F-3.3S	10~40	3.3 V	3.0 A	70%
ST15-24F-5S	10~40	5 V	3.0 A	76%
ST15-24F-12S	10~40	12 V	1.25 A	77%
ST15-24F-15S	10~40	15 V	1.0 A	75%
ST15-48F-3.3S	18~75	3.3 V	1.0 A	71%
ST15-48F-5S	18~75	5 V	1.0 A	78%
ST15-48F-12S	18~75	12 V	1.25 A	79%
ST15-48F-15S	18~75	15 V	1.0 A	79%

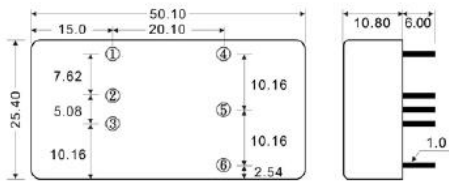
Please See Next Page For Dual Output Models, Mechanical Drawing & Pin Out

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Dual Output Models.

Model	Input VDC	Output 1	Output 2	Efficiency
ST15-24F-5D	10~40	+ 5 V / 1.5 A	-5 V / 1.5 A	78%
ST15-24F-12D	10~40	+12 V / 0.625 A	-12 V / 0.625 A	79%
ST15-24F-15D	10~40	+15 V / 0.5 A	-15 V / 0.5 A	79%
ST15-48F-5D	18~75	+5 V / 1.5 A	-5 V / 1.5 A	78%
ST15-48F-12D	18~75	+12 V / 0.625 A	-12 V / 0.625 A	79%
ST15-48F-15D	18~75	+15 V / 0.5 A	-15 V / 0.5 A	79%

Mechanical Drawing and Pin-Out (Top View)

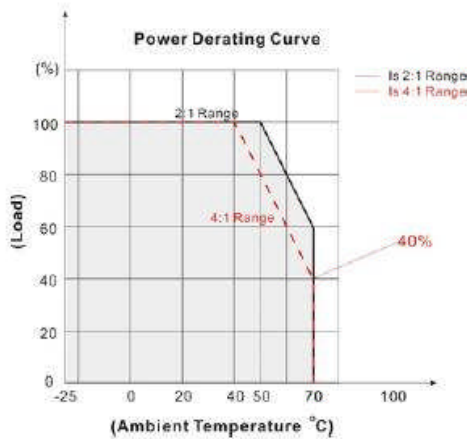


Pin	Single Output	Dual Output
1	Remote On/Off	Remote On/Off
2	- V in	- V in
3	+V in	+ V in
4	-DC Out	-DC Out
5	No Pin	Common
6	+DC Out	+DC Out

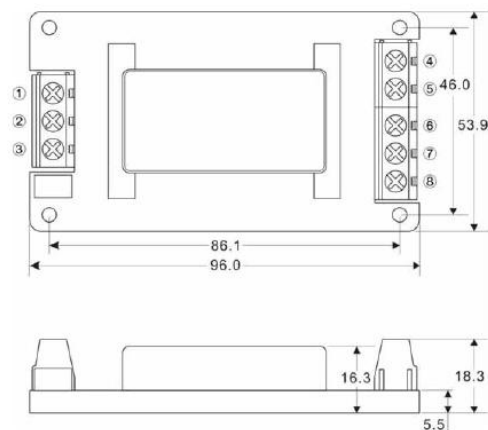
Pin 1, Remote on/off is optional

For remote option add suffix -R to end of unit part number, eg: ST10-24-12S-R

DERATING



Screw terminal adaptor boards are also available for chassis mounting of the DC-DC Converter if required.



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