

20 Watt, ST20 Series, DC-DC Converter, (Single Output)

ALL PSU LTD
Electronic Power Solutions

- Wide 2:1 Input Ranges
- Built In EMI Filter
- Isolated Output 1600 Volts
- Compact Encapsulated 2 x 1" Case
- Remote on/off Control
- CE Marked & UL Approval
- Short Circuit Protection
- High Efficiency Up To 87%
- 2 Year Warranty



Size 50.1 x 25.4 x 10.8 mm

Specification

Input Range.....	2:1 wide input, 18~36 or 36~75 Volts DC
Output.....	Single Output, see table below
Line Regulation.....	+/-0.5%, across full input range
Load Regulation.....	+/-1% (from 10~100% load)
Efficiency.....	83% to 87% dependent on model, see table
Switching Frequency.....	400 kHz
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-Copper, (Base: plastic) (6 sided shield)
MTBF.....	>550 khrs (MIL-HDBK-217F) @ 25 °C
Weight.....	32 g

Models and Ratings

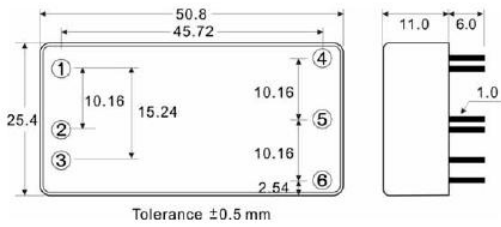
Model	Input VDC	Output 1	Efficiency
ST20-24-2.5S	18~36	2.5 V, 4.0 A	83%
ST20-24-3.3S	18~36	3.3 V, 4.0 A	86%
ST20-24-5S	18~36	5.0 V, 4.0 A	87%
ST20-48-2.5S	36~75	2.5 V, 4.0 A	83%
ST20-48-3.3S	36~75	3.3 V, 4.0 A	86%
ST20-48-5S	36~75	5.0 V, 4.0 A	87%

Please See Next Page For Mechanical Drawing & Pin Out

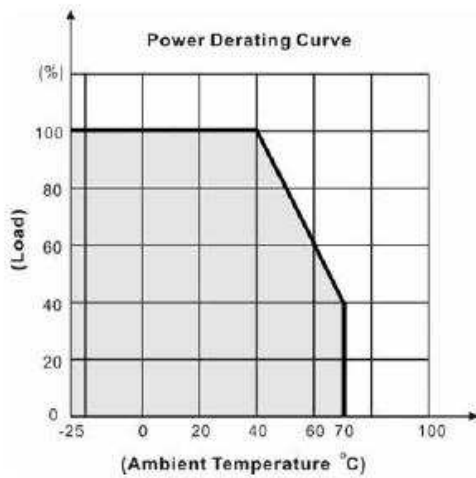
ALL PSU Ltd, Unit D6 Laser Quay, Culpeper Close, Medway City Estate,
Rochester, Kent, ME2 4HU, Tel : 01634 725527, Fax : 01634 739111
Email : sales@allpsu.co.uk, Web : www.allpsu.co.uk

20 Watt, ST20 Series, DC-DC Converter, (Single Output)

Mechanical Drawing and Pin-Out (Top View)



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

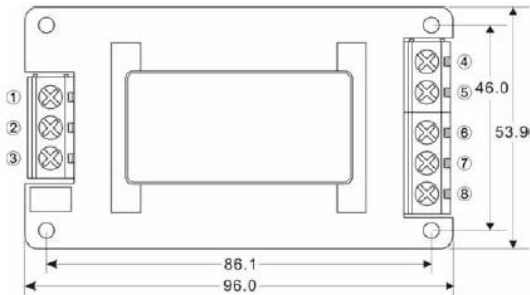


Notes:

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. If Remote function is not required the control pin can be left open for normal "on" operation.

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), screw terminals for crimped terminals are also available



Connections as per the table above



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