

10 Watt, SH10 Series, DC-DC Converter (Single & Dual Output)

ALL PSU LTD
Electronic Power Solutions

- Wide 2:1 Input Range
- 8.25 to 10 Watts Depending On Model
- 1600V Isolation
- 24 Pin Dual-in-Line Style
- Encapsulated Metal Case
- Competitive Prices
- High Efficiency up to 87%
- -25 to +100 °C Operational Temperature Range



Specification (typical values shown)

Input Ranges.....	9~18 Volts, 18~36 Volts and 36~75 Volts
Outputs.....	Single or dual outputs available (see table below)
Line Regulation.....	+/-0.5%
Load Regulation.....	+/-1% (3.3V output models are +/-3%)
Output Ripple.....	<0.2% of Vout
Output Noise.....	<0.5% of Vout
Efficiency.....	See table for each model
Short Circuit Protection.....	Current limit, auto-recovery
Isolation Voltage.....	1600 VDC
Operating Temperature.....	-25 to +60 °C @ full load, Derates to 100°C
Storage Temperature.....	-55 to +105 °C
Case Material.....	6 sided shielded Nickel-Copper, non conductive base
Switching Frequency.....	300 kHz typical
MTBF.....	>800,000 hrs @ 25°C (MIL-HDBK-217F)
Warranty.....	2 Years

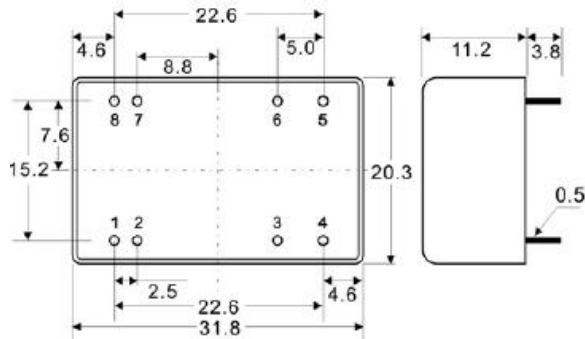
Models and Ratings

Model (9~18V input)	Model (18~36V input)	Model (36~75 Input)	Output (VDC)	Output Current	Efficiency
Single Output Models					
SH10-12-3.3S	SH10-24-3.3S	SH10-48-3.3S	3.3 V	2500 mA	82%
SH10-12-5S	SH10-24-5S	SH10-48-5S	5.0 V	2000 mA	81% / 85%
SH10-12-12S	SH10-24-12S	SH10-48-12S	12 V	830 mA	86%
SH10-12-15S	SH10-24-15S	SH10-48-15S	15 V	670 mA	86%
SH10-12-24S	SH10-24-24S	SH10-48-24S	24 V	416 mA	86%
Dual Output Models					
SH10-12-5D	SH10-24-5D	SH10-48-5D	+/-5 V	+/-500 mA	82% / 83%
SH10-12-12D	SH10-24-12D	SH10-48-12D	+/-12 V	+/-250 mA	86% / 87%
SH10-12-15D	SH10-24-15D	SH10-48-15D	+/-15 V	+/-200 mA	86%

For mechanical data and pinout, please see next page

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Mechanical Details and Pin-Out Top View



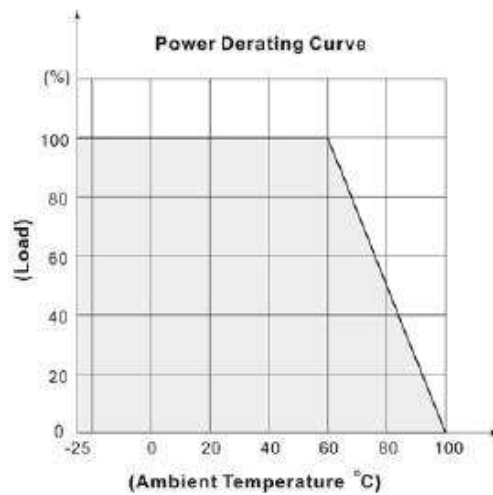
Tolerance ± 0.5 mm

Pin	Function	
	Single O/P	Dual O/P
1	-V in	-V in
2	-V in	-V in
3	No Pin	Common
4	N/C	-V out
5	+V out	+V out
6	-V out	Common
7	+V in	+V in
8	+V in	+V in

N/C = Pin with no connection

Derating Curve

DERATING



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

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