

ALL PSU DATA SHEET.

3-4 Watt Encapsulated DC/DC-converter, SH3W3 Series. Triple Output

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- Output Power 4Watts max.
- PCB Mount Direct Soldering
- Input To Output Galvanically Isolated
- Filtering At Input
- Overload & Overtemperature Protected
- Copper Case
- For High Ambient Temperatures
Up To 125°C And Long Life
- Wide Input Range
- Linear Regulated Outputs

Standard Models, (Alternative Input Or Output Versions May Be Available).

| | | | |
|------------------------------------|----------------|-----|---------------|
| Input Voltage Range (From Nominal) | +/- 25 % | | |
| Input Voltage Order Code | 2 | 4 | 5 |
| Nominal Input Voltage DC | 12V | 24V | 48V |
| Input To Output | Isolated | | |
| Output Power Rating | Max. 4 Watts | | |
| Output Voltage Order Code | 2 | | 3 |
| Output Voltage | +5V, +/-12V | | +5V, +/-15V |
| Output Current | 250mA, 2x100mA | | 250mA, 2x70mA |
| Voltage Accuracy | Typ. +/- 3% | | |

Specification

(after warm-up-time at 25°C)

| | |
|--|--|
| - Input Voltage Range @ Full Load | 12 VDC (9V-18V) 24 VDC (18V-36V) 48 VDC (36V-60V) |
| - Output Voltage Accuracy @ 50% Load | typ. 3% (max.5%) |
| - Regulation Output 1 | |
| - Load Variation 5mA-100% static | typ. 0.5% (max 2.0%) |
| - Input Voltage Variation | typ. 0.1% (max 0.5%) |
| - Recovery Time | 50 µs (max. 100µs) |
| - Regulation Outputs 2 & 3 | |
| - Load Variation 5mA-100% | typ. 100mV (max 300mV) |
| - Recovery Time | typ. 20µs (max 50µs) |
| - Efficiency @ Full Load Nominal I/P Input 24 / 12V | typ. 71% |
| - Reflected Output Ripple | 1% pp.max. |
| - Input Ripple | 1% pp max. |
| - Storage Temperature Range | -40°C...+125°C |
| - Operating Temperature | -40°C...+125°C |
| - Derating Above 85°C | 2.5% / °C |
| - Temperature Coefficient | 0.01 % / °C |
| - Humidity | 100 % RH |
| - Isolation Input / Output | 1000 VDC / 1 min. |
| - Isolation Capacitance Input / Output | typ.50 pF * |
| - Isolation Resistor | 1G Ohm |
| * with anti-interference capacitor | ca. 1nF |
| - Thermal Limit | ca./approx. 125 °C |

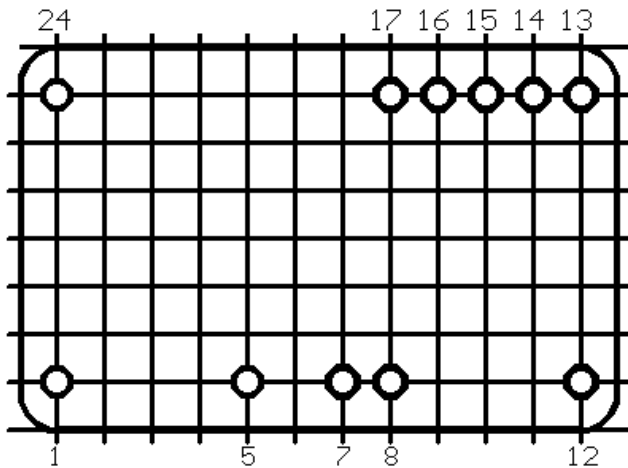
ALL PSU Ltd, Unit D6 Laser Quay, Culpeper Close, Medway City Estate,
Rochester, Kent, ME2 4HU, Tel : 01634 725527, Fax : 01634 725527
Email : sales@allpsu.co.uk Web : www.allpsu.co.uk

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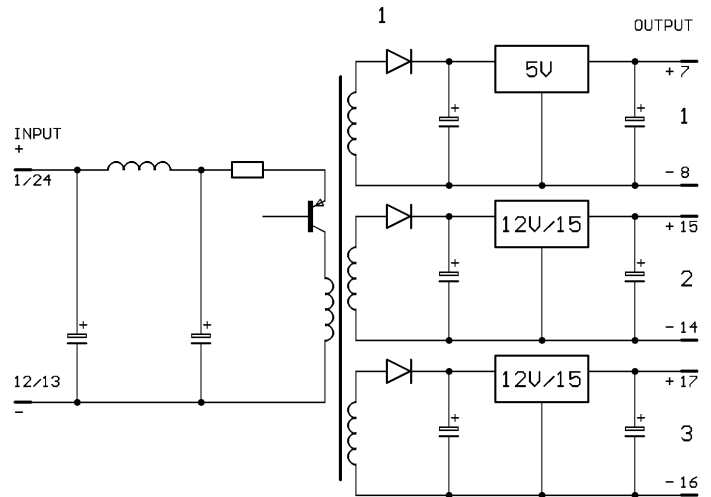
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Pin-out (Top View)



Circuit Block Diagram



Example Part Number.

SH3W3 - 4 - 2

Input 24 Volts (18-36 Volts)

Output 5 Volts, +/-12 Volts

Dimensions

32 x 20 x 10.5mm

Pin Diameter approx 0.8mm

Weight approx 20g

Pin 5 Is Optional Earthing Pin.

Notes :

Other Input / Output Voltages Or Special Modules May Be Available On Request.

Higher Output Currents Versions Are Available.

Higher Break Down Voltage (Input / Output) On Request.

The Units Are Available With Earth-Pin On Request.

Specifications May Change Without Notice. E&OE.

*Other DC-DC Converters From 0.5 To 600 Watts Are Available
A Full Range Of Power Supplies And Converters
Can Be Seen At www.allpsu.co.uk*

Should You Require Any Further Information On This Series
Or To Discuss Your Own Application Requirements
Please Contact The ALL PSU Sales Office.

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