

40 Watt, MSC Series, Medical Encapsulated Power Supply

ALL PSU LTD
Electronic Power Solutions

- Universal AC Input
- Fully Encapsulated, PCB Mounting Plastic Case, plus options of Chassis Mounting with Screw Terminal or IEC Connections
- Wide Temperature Range (-40°C option)
- Short Circuit, OVP Protected
- Convection Cooled
- Full Approvals: UL/CE/CB/cUL/TUV
- Low Ripple And Noise
- EN60601 Medical Safety Approvals



Specification

Input Voltage.....	90~264 VAC, 47~440 Hz (100-375 VDC)
Inrush Current.....	10 A @ 115 VAC, 20 A @ 230 VAC
Output Voltage.....	See table below
Load Regulation	Single & Symmetric Dual Outputs, +/-1%, Non Symmetric Dual Output 1 = +/- 2%, Output 2 = +/-6% Triple Output = +/- 3% Output 1, +/-7% Outputs 2 & 3
Line Regulation (full range).....	Single & Symmetric Dual Outputs, +/-0.5%, Non Symmetric Dual Output 1 = +/- 0.5 %, Output 2 = +/-5% Triple = +/- 0.5% Output 1, +/-5% Outputs 2 & 3
Over Voltage Protection.....	Zener Diode Clamp
Short Circuit Protection.....	Hiccup mode, indefinite (automatic recovery)
Hold Up Time.....	18 ms, min
Input to Output Isolation.....	I/P-O/P: 4 kVAC,
Operating Temperature	-20 to +70 °C, see derating curve (case temperature max +95 °C) (add suffix “-E1” for -40°C Operation)
Storage Temperature.....	-40 to +100 °C
Switching Frequency.....	132 kHz
Safety Standards.....	EN60601-1
EMC.....	EN55011 Class B, EN60536, EN60601-1-2
Mechanical ... (PCB Mount Version)...	Encapsulated, 89 x 63.5 x 27 mm
Connections Input & Output.....	PCB mounting: through hole pins
Mechanical Option.....	Chassis mounting with terminals Chassis mounting with IEC mains inlet

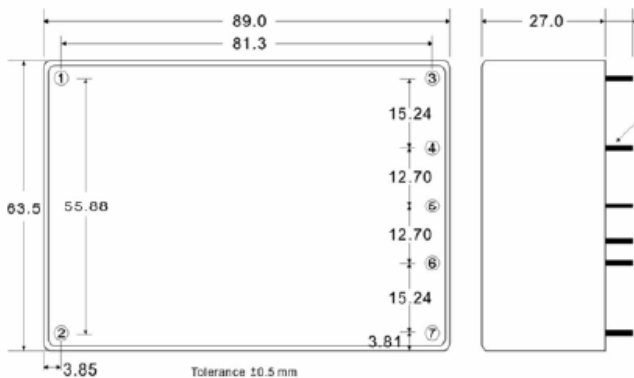
Models and Ratings (Single, Dual & Triple Outputs)

Model	Output 1	Output 2	Output 3	Output Current	Efficiency
MSC-3.3S	3.3 V			8.0 A	75%
MSC-5S	5.0 V			8.0 A	79%
MSC-9S	9.0 V			4.44 A	82%
MSC-12S	12.0 V			3.33 A	83%
MSC-15S	15.0 V			2.66 A	83%
MSC-24S	24.0 V			1.67 A	83%
MSC-5D	+ 5.0 V	- 5.0 V		+/- 4 A	79%
MSC-12D	+ 12.0 V	- 12.0 V		+/- 1.67 A	83%
MSC-15D	+15.0 V	-15.0 V		+/- 1.33 A	83%
MSC-5S12S	+ 5.0 V	+ 12.0 V		5 A, 1.25 A	80%
MSC-5S24S	+ 5.0 V	+24.0 V		5 A, 0.625 A	80%
MSC-5S12D	+ 5.0 V	+ 12.0 V	- 12.0 V	5 A, +/- 0.6 A	80%
MSC-5S15D	+ 5.0 V	+15.0 V	-15.0 V	5 A, +/- 0.5 A	80%

Please see next page for mechanical drawings.

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MECHANICAL DIMENSION (Top View)

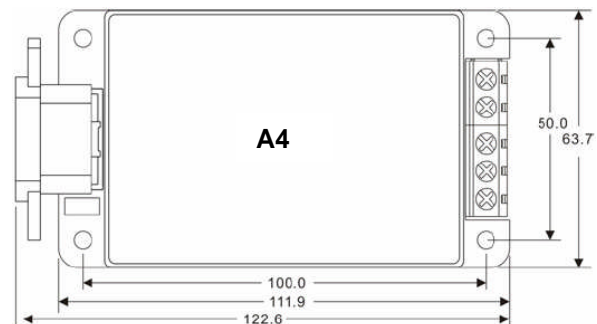
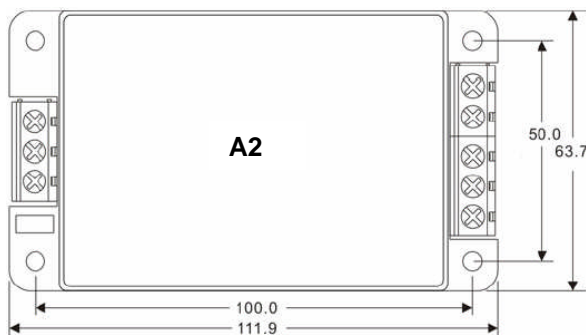


Pinout Details.

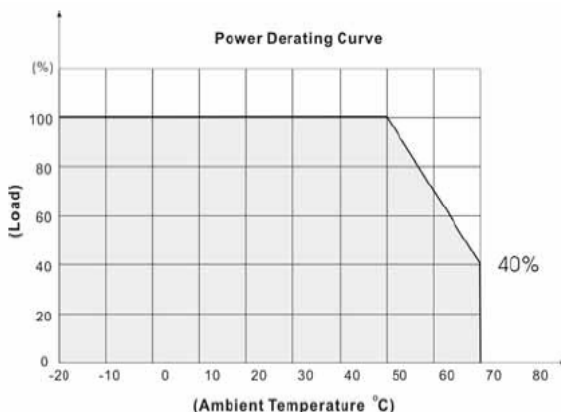
Pin	Single	Dual	5S12S	5S24S	Triple
1	AC Live	AC Live	AC Live	AC Live	AC Live
2	AC Neutral	AC Neutral	AC Neutral	AC Neutral	AC Neutral
3	+DC Out	+DC Out	+12V Out	+24V Out	+DC Out
4	No Pin	No Pin	+5V Out	+5V Out	+5V Out
5	-DC Out	Common	+12V Rtn	+24V Rtn	Common
6	No Pin	No Pin	+5V Rtn	+5V Rtn	+5V Rtn
7	N/C	-DC Out	No Pin	No Pin	-DC Out

Mechanical Options – add suffix :

- A2 = Chassis mounting with screw terminals for stripped wires input and output
 - A3 = Chassis mounting with IEC C8 mains inlet and stripped wire screw terminal output
 - A4 = Chassis mounting with IEC C14 mains inlet and stripped wire screw terminal output
 - A5 = Chassis mounting with screw terminals for crimped terminals input and output
 - A6 = Chassis mounting with IEC C8 mains inlet and crimped terminal screw output
 - A7 = Chassis mounting with IEC C14 mains inlet and crimped terminal screw output
- Please contact ALL PSU sales office for further details on A3, A5, A6 and A7 options



Chassis mount options total height 32.5mm



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

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