

## ALL PSU DATA SHEET.

### 400~1200 Watt Configurable Power Series. (6 Module Slot Chassis Version). Single or Multi Output. (Medical Approved Versions Also Available).

- \* 1 ~ 12 User Configurable Isolated O/P's
- \* Extra Low Profile : 1U Height (40mm)
- \* 1.5 to 100+ Volts DC Standard Outputs
- \* Universal Input With PFC
- \* Wide Adjusting And Floating Outputs
- \* Parallel And Series Capability
- \* Class B Conducted Emissions
- \* Control Signals On Each Module
- \* Simple IEC Mains Inlet
- \* 3 Year Warranty



#### Description.

The MS1U series are 6 slot modular factory or user configurable power supplies, 1 to 12 outputs can be provided which can be adjusted over a wide range to supply any output voltage between 1.5 to 58 Volts from a single module or higher voltages up to 100+ VDC can be supplied by linking modules in series. Higher Current ratings can also be achieved by using modules in parallel. The units are supplied in a rugged Alloy chassis with a customer specified 400, 700, 1000 or 1200 Watt input power stage.

#### Specification.

Input Voltage & Freq	85~264 VAC @ 47~63Hz, (120~380VDC)
Inrush Current	20 Amps Maximum
Power Factor	To EN61000-3-2
Output Power	Max 400,700,1000 or 1200 Watts (customer specified)
Output Voltages	See Table Below (Customer specified + Adjust Range)
Line Regulation	+/- 0.1% Over full Input AC Range
Load Regulation	0.2% change for 25% For 75% Load Change
Protection	Over Voltage / Over Current
Efficiency	90% Typical
Isolation	Yes, Input/Output, Input/Chassis, Module/Module
Safety Approvals	EN60950, UL60950, CSA22.2,
EMC	EN55011, EN55022, FCC B, EN61000-3-3 EN 61000-3-2, EN61000-4-2,3,4,5,6,11
Operating Temperature	-20~+70°C , Full Load Up To 50°C
Size And Weight	260 x 127 x 40mm, 2.5KG (fully populated)
Connections	IEC Mains Inlet, Screw Terminals For Output

#### Output Module Options (up to 6 slots available, therefore from 1 to 12 outputs).

Single Output Modules		Nominal Output	Adjust Range	Max Current
Module 1	1 Slot	2.5 Volts DC	1.5~3.6 Volts	50 Amps
Module 2	1 Slot	5.0 Volts DC	3.2~6 Volts	40 Amps
Module 3	1 Slot	12.0 Volts DC	6~15 Volts	20 Amps
Module 4	1 Slot	24.0 Volts DC	12~30 Volts	10 Amps
Module 5	1 Slot	48.0 Volts DC	28~58 Volts	6 Amps
Module 7	1 Slot	24.0 Volts DC	5~28 Volts	5 Amps
Dual Output Modules		Nominal Output	Adjust Range	Max Current
Module 8	1 Slot	24.0 Volts	5~28 Volts	3 Amps
		24.0Volts	5~28 Volts	3 Amps

For total power / chassis options, part numbering and mechanical details please see next page.

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](mailto:sales@allpsu.co.uk), Web : [www.allpsu.co.uk](http://www.allpsu.co.uk)

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## 400-1200 Watt Configurable Power Series. (6 Slot Chassis Version). Single Or Multi Output.

**Chassis Options. (specify your required maximum overall output power).**

Series	Chassis Power Code	Number of Output Module Slots	Maximum Total Output Power	Chassis Width
MS1U-	6A	Up to 6	400 Watts	127mm
MS1U-	6B	Up to 6	700 Watts	127mm
MS1U-	6C	Up to 6	1000 Watts	127mm
MS1U-	6D	Up to 6	1200 Watts	127mm

**Part Numbering Codes : MS1U-xx-yyyyyy-C**

MS1U = Product Family, Medical Range, 1U height profile.  
 xx = Chassis Code,  
 yyyyyy = Output Module Selection  
 -C = Output set up and configured at the factory to your exact output voltage requirements.

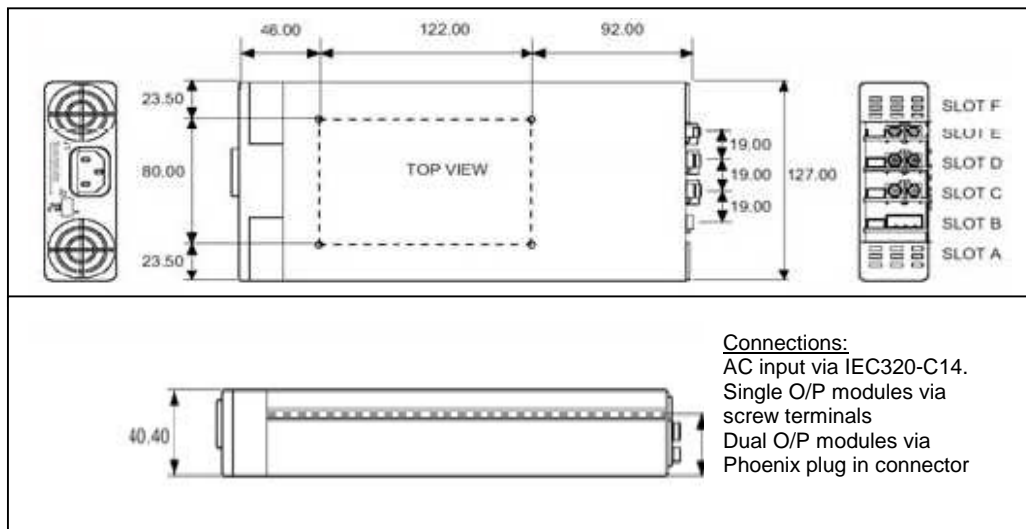
Example Part Number : Model MS1U-6B-234480-C

MS1U-6B slot medical chassis rated to up to 700 Watts.

Output modules fitted, 2 = nominal 5 Volts, 3 = nominal 12 Volts, 4 = nominal 24 Volts (x 2), 8 = Dual Output Module 0 = no output module, blanking plate fitted.

-C = Option of factory configured, this means that the output modules can have the output voltages set to the exact required levels, plus any Series or Parallel connection of modules can be made.

Please consult ALL PSU for your required output configuration.



**Signal / Control Connectors :**

Main Power Unit Signals		Single Output Modules (1-5)		Dual Output Module	
Pin 1	Common	Pin 1	+ Sense	Pin 1	+ Power Good V2
Pin 2	+5 Volt Bias	Pin 2	- Sense	Pin 2	- Power Good V2
Pin 3	Earth	Pin 3	Voltage Trim	Pin 3	Inhibit V2
Pin 4	AC Fail	Pin 4	Current Trim	Pin 4	Common V2
Pin 5	Fan Fail	Pin 5	+ Inhibit/Enable	Pin 5	+ Power Good V1
Pin 6	Global Enable	Pin 6	- Inhibit/Enable	Pin 6	- Power Good V1
Pin 7	Temp Alarm	Pin 7	+ Power Good	Pin 7	Inhibit V1
Pin 8	Global Inhibit	Pin 8	- Power Good	Pin 8	Common V1

Further information and assistance in model selection can be received from ALL PSU office.

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

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