

- 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
- 3 Year Warranty



Description

The MS1U series are medically approved, 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 either a 400, 700, 1000, 1200 or 1360 Watt input power stage.

Specification

Input Voltage & Freq.....	88~264 VAC @ 47~63 Hz, (120~380 VDC)
Inrush Current.....	20 Amps maximum
Power Factor.....	To EN61000-3-2
Leakage Current.....	Less than 300µA
Output Power.....	Max 1200 Watts (customer specified)
Output Voltages.....	See table below (customer specified + trim)
Line Regulation.....	+/- 0.1%
Load Regulation.....	+/-0.2%, 25% for 75% load change
Protection.....	Overvoltage/overcurrent
Efficiency.....	90% typical
Isolation.....	Input-Output: 4 kVAC
Safety Approvals.....	EN60950-1, UL2601-1
EMC.....	EN550011, EN55022, FCC B, EN61000-3-3 EN61000-4-2, 3, 4, 5, 6, 11
Operating Temperature.....	-20 to +70 °C , full load up to 50 °C
Size And Weight.....	260 x 127 x 40 mm, 2.5 kg (fully populated)
Connections.....	IEC mains input, screw terminals for output

Module Ratings

Single Output Modules		Nominal Output	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	Range	Max Current
Module - 8	1 Slot	24.0 Volts	5~28 Volts	3 Amps
		24.0 Volts	5~28 Volts	3 Amps

See next page for part numbering and mechanical details

Chassis Options

Series	Chassis Power Code	Number of Output Module Slots	Maximum Total Output Power	Chassis Width
MS1U-	6A	Up to 6	400 Watts	127 mm
MS1U-	6B	Up to 6	700 Watts	127 mm
MS1U-	6C	Up to 6	1000 Watts	127 mm
MS1U-	6D	Up to 6	1200 Watts	127 mm
MS1U-	6E	Up to 6	1360 Watts	127 mm

Part Numbering Codes: MS1U-xx-yyyyyy-C-00

MS1U = Product family, industrial 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.

00 = Option code. **"01"** = Thermal signals, **"02"** = Reverse Airflow, **"03"** = Both "01" & "02" options

Example Part Number : Model **MS1U-6B-234480-C-00**

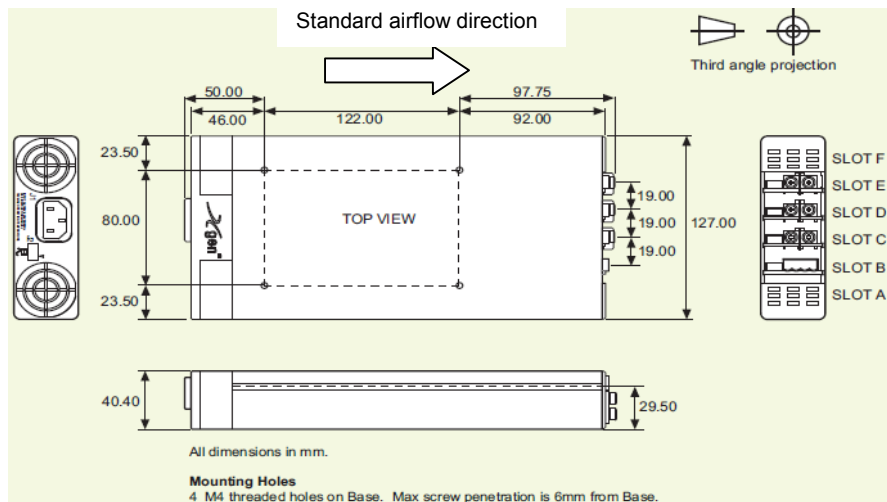
MS1U-6B slot medical chassis rated to up to 700 Watts.

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.

Mechanical Details



Reverse airflow (option "02" has air exhausted via the AC mains side of the PSU. Airflow direction and fan rotation direction are indicated via arrows on the fan body

Connections:
AC input via IEC320-C14.
Single O/P modules via screw terminals
Dual O/P modules via Phoenix plug in connector

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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