

1200W MEDICAL AC/DC MODULAR POWER SUPPLY

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Email: sales@autecpower.com

■ **Features**



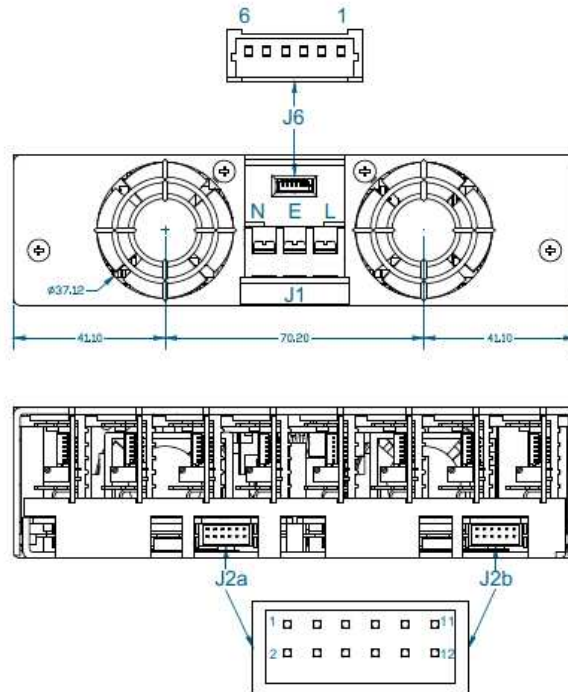
- Supply Voltage: 85-264Vac
 - Configurable Outputs
 - Small Footprint 6"x6"x1.61"
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- Up to 1200 Watts of output power
 - 6" x 6" x 1.61" footprint
 - Efficiency up to 89%
 - Primary side remote on/off function
 - Standby power ≤ 3 Watts
 - Field configurable
 - UL60601 3rd Edition approved
 - Industry leading power density (21W/in³)
 - Lightest modular design – only 1.2kg – 1000Watts/kg
 - Parallel & series connection of modules
 - Remote current / voltage programming
 - Accurate current sharing
 - 2 x 5V 1A bias supply
 - Low noise fan option
 - 3 Year warranty

■ **Model List**

		INPUT ELECTRICAL				
Parameter	Details	Min	Typ	Max	Units	
AC Input Voltage	Nominal range is 100V to 240V	85		264	Vrms	
AC Input Frequency	Contact factory for 400Hz operation.	47	50/60	63	Hz	
DC Input Voltage	Standard	120		370	Vdc	
Power Rating	See graphs for de-rating			1200	Watts	
Input Current	1200Watts output at 120Vrms input			12	Amps	
Inrush Current	265Vrms (cold start)			40	Amps	
Fusing	5x20 Fast acting			12.5	Amps	
Input Current Limit			14		Amps	
Efficiency	See graphs		86	89	%	
Idle Power	All outputs fitted and enabled		46		Watts	
Idle Power	All outputs fitted and Disabled		32		Watts	
Standby Power	Latched off state, 120Vrms		2.5		Watts	
Power Factor			0.99	0.99		
Holdup	1200Watts output at 120Vrms input	17	20	21	mS	
UVLO	Turn on only	78		84	Vrms	
Over temperature	Internally monitored. Latching	115		125	°C	
Reliability	40°C 80% load			2	FPMH	
Leakage Current	Normal condition, 264V, 63Hz		190		µAmps	
Signals	Output Bias voltage	Two isolated Bias Outputs available	4.8	5	5.2	V
	Output Bias current	Hiccup type current limit	0		1	A
	Power Good voltage	PNP open collector with internal 10k pull down resistor	8	10	15	V
	Power Good current		0		20	mA
	Inhibit voltage		2		15	V
	Inhibit current	10k ohm input impedance	0.2		1.5	mA
	Global inhibit voltage		3		15	V
	Global inhibit current	5k ohm input impedance	0.6		3	mA
	AC_OK voltage	High output Low output	4.7 0		5.2 0.1	V
	AC_OK current		-10		10	mA
	AC_OK warning	See user manual for exceptions	5			mS
	Primary Bias voltage	Medically Isolated	4.8	5	5.2	V
	Primary Bias current	Hiccup type current limit			0.5	A
Primary Remote On/Off	Negative Edge Triggered, Refer to User Manual		5		V	

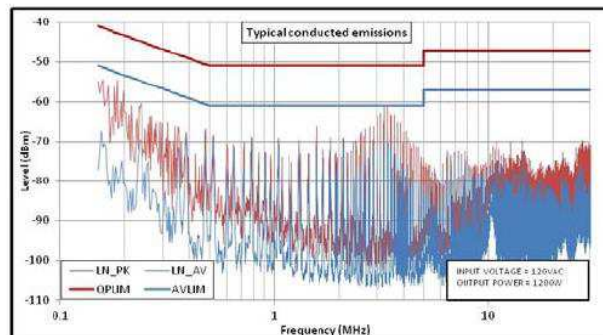
■ Connectors

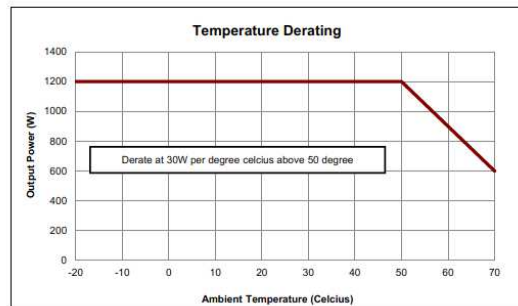
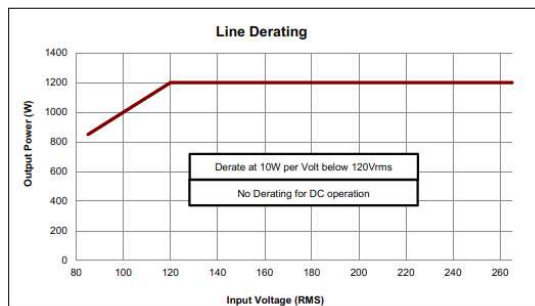
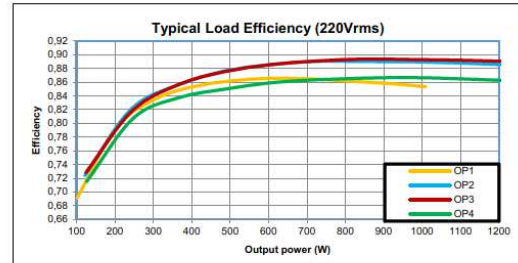
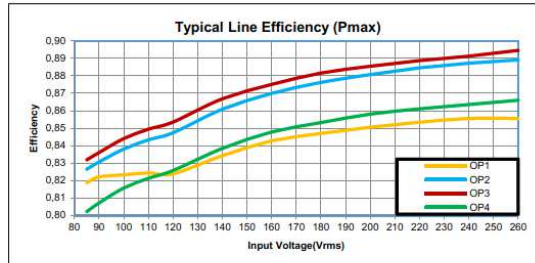
PINOUTS		
J1		
Circuit	Details	
1	Live	
2	Earth	
3	Neutral	
J2a/b		
Circuit	Details	
1	Power Good	Slot
2	Inhibit	A and E
3	Power Good	Slot
4	Inhibit	B and F
5	Power Good	Slot
6	Inhibit	C and G
7	Power Good	Slot
8	Inhibit	D and H
9	Global Inhibit	
10	AC OK	
11	+5V 1A Bias Supply	
12	COM	
J6		
1	Common	
2	+5V 500mA Bias	
3	Shut Down	
4	Reserved	
5	Reserved	
6	Reserved	



REF	DETAILS	MANUFACTURER	HOUSING	TERMINAL
J1	MAINS INPUT: 3 Pin, Barrier, 6-32 Steel Screws, 0.8 NM or 7IN LB Torque Cable 14-18AWG, 300V, 16A, 105°C, use appropriately rated fork or ring terminal.	MOLEX		
J2a/b	GLOBAL SIGNALS: 12 Pin, 2mm, without Friction Lock, 24-30 AWG	MOLEX	511101251	503948051
J6	INPUT BIAS: OUTPUT SIGNALS: 6 Pin, 1.25mm, with Friction lock, 28-32 AWG	MOLEX	510210600	500588000
Notes				
1. Direct equivalents may be used for any connector parts.				
2. All cables must be rated 105°C min, equivalent to UL1015				

■ Typical Efficiency, De-rating, and Emission Curves





Standard	Details
IEC/EN60601-1	3rd Edition
UL60601-1	3rd Edition
CAN/CSA-C22.2 No. 60601-1 (2008)	
ANSI/AAMI ES60601-1 (2005 + C1:09 + A2:10)	
CE MARK	LVD 2014/35/EU

Please contact the factory to obtain your configuration and final call-out based on your output requirements.

■ Mechanical Design

