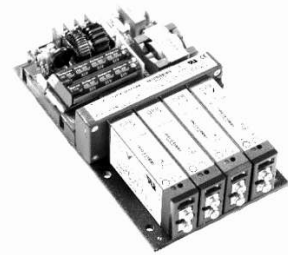


600W MEDICAL AC/DC MODULAR OPEN FRAME POWER SUPPLY

Sales / Technical Support: +1-818-338-7788 Option 3  
 Email: sales@autecpower.com

■ Features



- Supply Voltage: 85-264Vac
- Configurable Outputs
- Small Footprint 4"x7"x1.61"

- 600 Watts output (Vin > 120V<sub>RMS</sub>)
- Peak power capability (750W 5sec)
- 7" x 4" x 1.61" footprint
- Convection/Conduction/Forced-Air cooled
- Modular & user configurable
- Low power standby mode (<1W)
- High efficiency – up to 90%
- Additional 5V 1A bias supply
- Remote voltage & current programming
- Current output signal
- Accurate current sharing
- Programmable start-up state (Laser Apps)
- IEC60601 Ed. 3 (Immunity to Ed. 4)
- MIL-STD 810G
- MIL-STD 461F
- MIL-STD 704F
- SEMI F47 compliant
- 5 Year warranty

■ Model List

INPUT MODULE SPECIFICATIONS					
Parameter	Details	Min	Typical	Max	Units
AC Input Voltage	Nominal range is 100V <sub>RMS</sub> to 240V <sub>RMS</sub>	85		264	V <sub>RMS</sub>
AC Input Frequency	Contact factory for 400Hz operation.	47	50/60	63	Hz
DC Input Voltage		120		370	V <sub>DC</sub>
Output Power Rating	De-rate linearly from 600Watts at 120V <sub>RMS</sub> to 425Watts at 85V <sub>RMS</sub>			600	Watts
Input Current	600Watts output at 120 V <sub>RMS</sub> input			6	Amps
Input Current Limit			7		Amps
Inrush Current	265V <sub>RMS</sub> , 25°C (cold start)			20	Amps
Fusing	Each line fused (5x20 Fast acting)			8	Amps
Efficiency	See graphs			90	%
No load Power consumption	All outputs fitted and disabled/enabled		10/21		Watts
Standby Power	Latched off state, 120V <sub>RMS</sub>		0.5	1	Watts
Power Factor			0.99		
Holdup	600Watts output at 120V <sub>RMS</sub> input	17	20	21	mS
UVP	Turn on under voltage protection	78		84	V <sub>RMS</sub>
Over temperature	Internally monitored.	115		125	°C
Reliability <sup>(1)</sup>	Input module			1.1	FPMH
	Transformer module			0.4	FPMH
Warranty	Standard terms and conditions apply			5	Years
Size	177.8 (L) x 101.6 (W) x 41.0 (H). See diagram for tolerance details				mm
Weight	650 + 100 per output module				Grams
Note 1.	30°C base & ambient, 100% load, SR332 Issue 2 Method I, Case 3, Ground, Fixed, Controlled				

GLOBAL SIGNALS SPECIFICATIONS					
Parameter	Details	Min	Typical	Max	Units
Bias Voltage		4.8	5	5.2	Volts
Bias Current				1	Amps
AC_OK Voltage	Low output level/High output level	0/4.8	0.03/5	0.1/5.2	Volts
AC_OK Current				10	mA
Power Good Voltage	Open collector output. Low output level. All slots. Absolute maximum = 6V.	0.1		0.3	Volts
Power Good Current	Open collector output. Current sink only. All Slots.			50	mA
Tsns Voltage	Typical at 0°C internal temperature, 19.5mV/°C.	0	0.4	5	Volts
Tsns Current				100	uA
Inhibit Voltage	Low input level/High input level. All slots.	0/2.5		0.8/6	Volts
Inhibit Current	10k input impedance. All slots.			1	mA

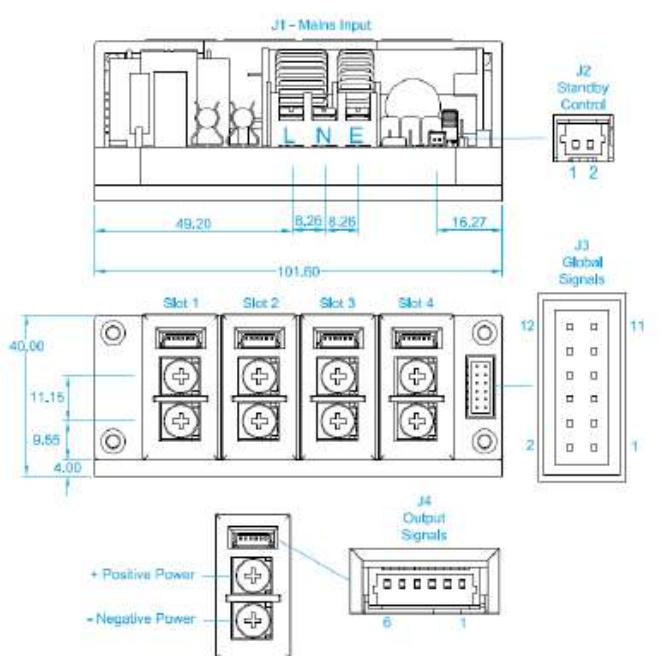
**600W MEDICAL AC/DC MODULAR OPEN FRAME POWER SUPPLY**

OUTPUT MODULE SPECIFICATION SUMMARY											
Output Voltage			Output Current	Rated Power	Peak Power	Load Reg.	Line Reg.	Cross Reg.	Ripple & Noise	FPMH <sup>(1)</sup>	Feature Set <sup>(2)</sup>
Min.	Nom.	Max.									
1.5V	5V	7.5V	25A	125W	187.5W	±50mV	±5mV	±10mV	50mV <sub>PP</sub>	0.5	ABCDEFG
4.5V	12V	15V	15A	150W	225W	±100mV	±12mV	±24mV	120mV <sub>PP</sub>	0.5	ABCDEFG
9V	24V	30V	7.5A	150W	225W	±150mV	±24mV	±48mV	240mV <sub>PP</sub>	0.5	ABCDEFG
18V	48V	58V	3.75A	150W	217.5W	±300mV	±48mV	±96mV	480mV <sub>PP</sub>	0.5	ABCDEFG
4.5V	5V	5.5V	100A	500W	TBD	TBD	TBD	TBD	TBD	TBD	AEFGHIJ
10.8V	12V	13.2V	50A	600W	TBD	TBD	TBD	TBD	TBD	TBD	AEFGHIJ
21.6V	24V	26.4V	25A	600W	TBD	TBD	TBD	TBD	TBD	TBD	AEFGHIJ
43.2V	48V	52.8V	12.5A	600W	TBD	TBD	TBD	TBD	TBD	TBD	AEFGHIJ

■ Connectors

**CONNECTOR DETAILS**

PINOUTS	
Circuit	Details
<b>J1 - Mains Input</b>	
1	Live
2	Neutral
3	Earth
<b>J2 - Standby control</b>	
1	Standby control negative
2	Standby control positive
<b>J3 - Global Signals</b>	
1	Slot 4 - Power Good
2	Slot 4 - Inhibit
3	Slot 3 - Power Good
4	Slot 3 - Inhibit
5	Slot 2 - Power Good
6	Slot 2 - Inhibit
7	Slot 1 - Power Good
8	Slot 1 - Inhibit
9	Temperature sense (T <sub>amb</sub> )
10	AC OK
11	+5V (Bias Supply 1A)
12	COM
<b>J4 - Output Signals</b>	
1	- Sense
2	+ Sense
3	COM
4	I Control
5	V Control
6	+5V (Bias Supply 20mA)



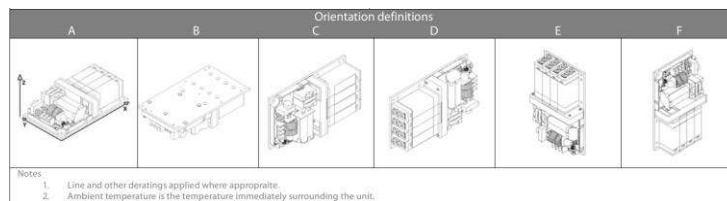
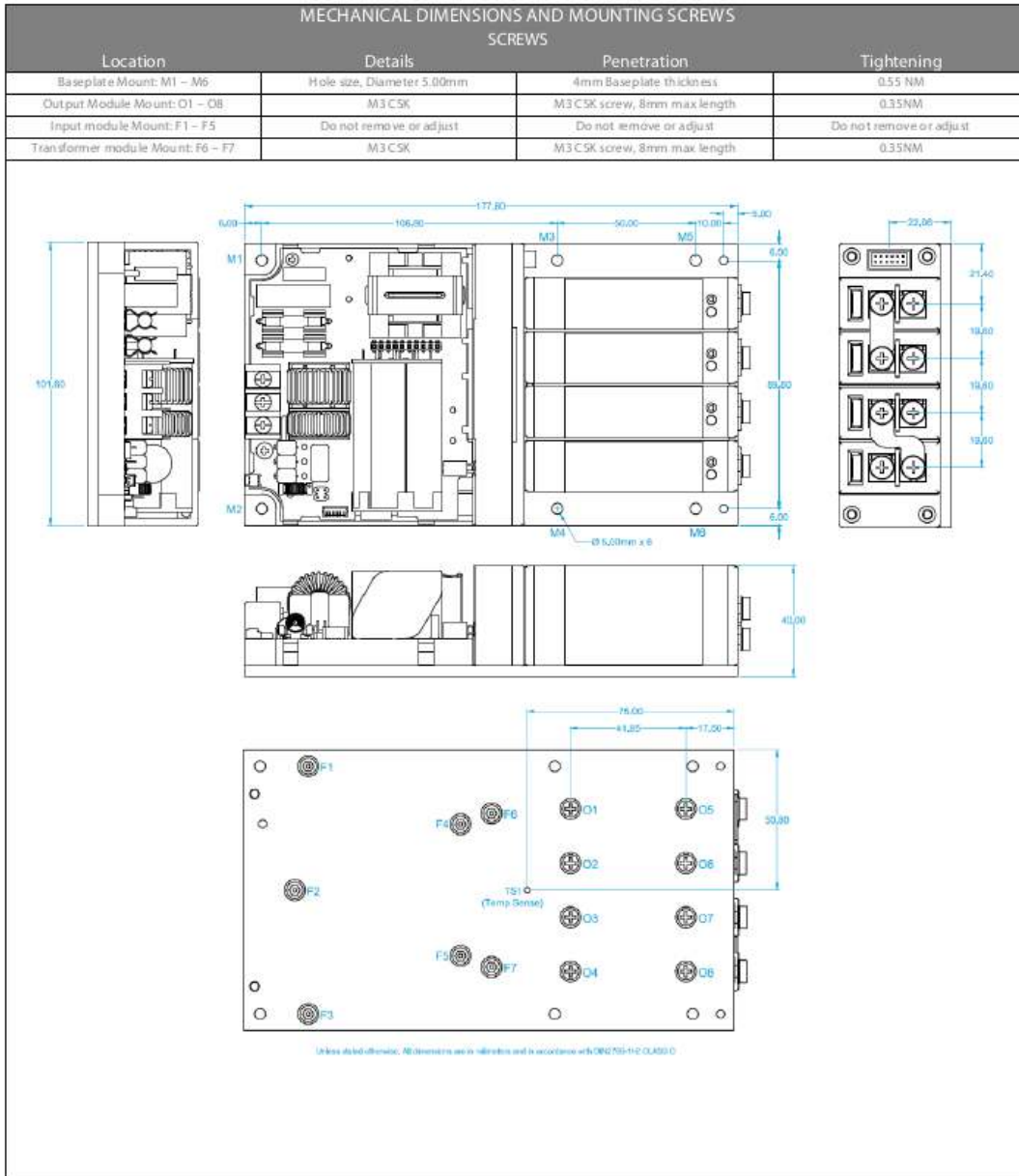
Dimensions: 48.20, 8.26, 8.26, 16.27, 101.60, 40.00, 11.15, 9.65, 4.00

Unless stated otherwise, all dimensions are in millimeters and in accordance with DIN2788-1/2 CLASS C

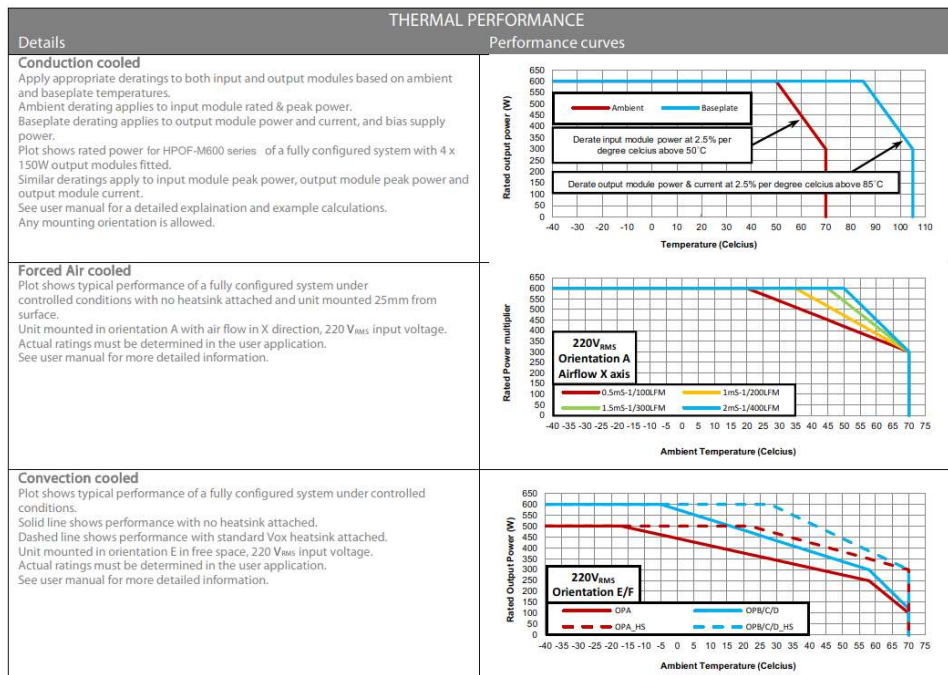
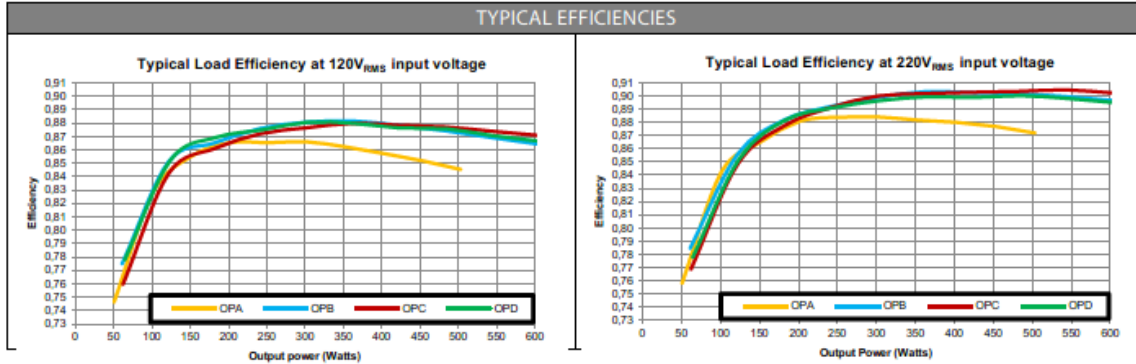
Ref.	Details	Manufacturer	Housing	Terminal
J1 - Mains Input	3 Pin, Barrier, 6-32 Steel Screws, 0.8 Nm or 7 Lb-In Torque <sup>(1)</sup>			
J2 - Standby control	2 Pin, 1.25mm, with Friction Lock, 28-30AWG	MOLEX	0510210200	0500588000
J3 - Global Signals	12 Pin, 2mm, with Friction Lock, 24-30 AWG, WIRE TO BOARD	MOLEX	0511101260	0503948051
	12 Pin, 2mm, with Friction Lock, 24-30 AWG, IDT CABLE TO BOARD	MOLEX	0875681273	
J4 - Output Signals	6 PIN, 1.25mm, with Friction Lock, 28-30AWG	MOLEX	0510210600	0500588000
Output Power	Positive/Negative, M4 terminal, use appropriately rated crimp terminal			

Notes:  
1. Cable 14-18AWG, 300V, 16A, 105°C, use appropriately sized crimp terminal.  
2. Direct equivalents may be used for any connector parts.  
3. All cables must be rated 105°C min. equivalent to UL1015

■ Mechanical Design



■ Typical Efficiency, De-rating, and Emission Curves



Standard	Details
IEC 60601-1:2005/AMD1:2012/COR1:2014	3rd Edition
UL60601-1:2006	
CAN/CSA - C22.2 No. 60601-1:14 - Edition 3	Medical Equipment Part 1: General requirements for basic Safety and essential Performance
ANSI/AAMI ES60601-1(2005 +C1:09 +A2:10)	Medical Equipment Part 1: General requirements for basic Safety and essential Performance
CE MARK	LVD 2014/35/EU, EMC 2014/30/EU

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