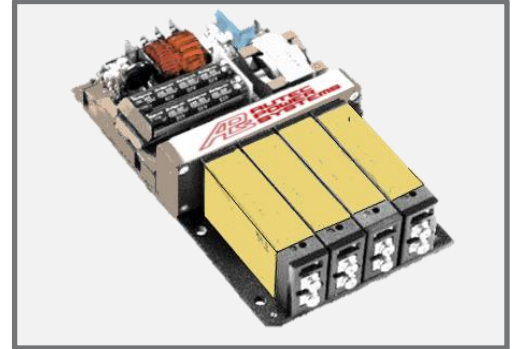


### ■ Features

- Single output from 125-600W
- Input voltage range: 90-264V
- Output current(3750mA-100000mA)
- Configurable outputs
- 4"x7" Form Factor
- Efficiency to 90%
- Remote voltage & current programming
- Current output signal
- Accurate current sharing
- Programmable start-up state(Laser Apps)
- 5-year Warranty



\*Product images are for illustrative purposes only and may vary from actual design.

### ■ Applications

- Medical grade equipment

[2D model](#)

### ■ Output Module Specification Summary\*(See part number scheme for model number details)

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

### ■ Technical Data

AC Input Voltage	90-264Vac
AC Input Frequency	47-63Hz; 50/60Hz typical
DC Input Voltage	120-370Vdc
Output Power Rating	De-rate linearly from 600Watts at 120V to 425Watts at 85V
Input Current	600W output at 120Vac input; 6A
Input Current Limit	7A
Inrush Current	265Vac, 25°C(cold start); 20A
Fusing	Each line fused (5x20 Fast acting); 8A
Efficiency	90%
No Load Power Consumption	All output fitted and disabled/enabled; 10/21W
Standby Power	Latched off state, 120Vac; 0.5-1W
Power Factor	0.99
Hold up	600W output@120Vac input Min.: 17mS, Typ.:20mS, Max.: 21mS
UVP	Turn on under voltage protection 78-84Vac
Over Temperature	Internally monitored 115-125°C

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■ Technical Data(cont.)

Reliability(1)	Input Module 1.1 FPMH Transformer Module 0.4 FPMH
Size	177.8x101.6x41mm
Weight	650+100(per output module)

NOTE(1): 30°C base & ambient, 100% load, SR332 issue 2 Method I, Case 3, Ground, Fixed, Controlled

■ Global Signals Specifications

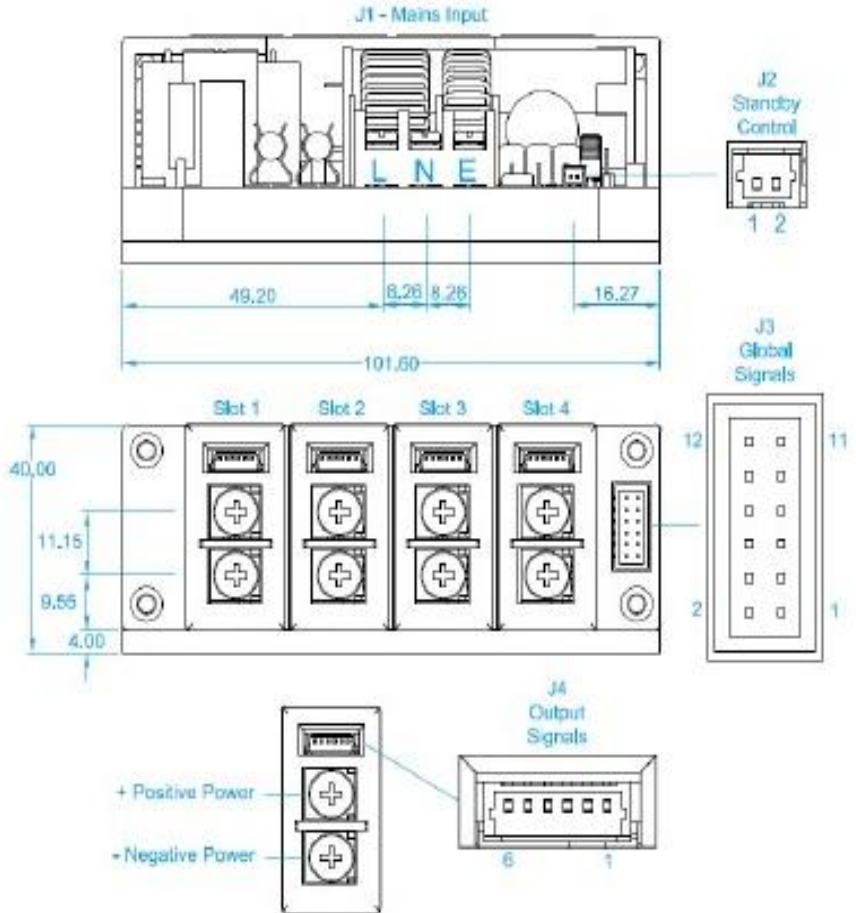
Bias Voltage	Min.: 4.8V, Typ.: 5V, Max.:5.2V
Bias Current	1A
AC_OK Voltage	Low output level/High output level Min.: 0/4.8V, Typ.: 0.03/5V Max.: 0.1/5.2V
AC_OK Current	10A
Power Good Voltage	Open collector output. Low output level. All slots. Absolute maximum=6V Min.: 0.1V, Max.:0.3V
Power Good Current	Open collector output. Current sink only. All slots. 50mA
Tsns Voltage	Typical at 0°C internal temperature, 19.5mV/°C Min.: 0, Typ.: 0.4V Max.: 5V
Tsns Current	100µA
Inhibit Voltage	Low input level/ High input level. All Slots Min.: 0-2.5V, Max.: 0.8/6V
Inhibit Current	10k input impedance. All slots. 1mA

■ Safety and EMC

IEC 60601-1:2005/AMD1:2012/COR1:2014	3 <sup>rd</sup> edition
UL60601-1:2006	
CAN/CSA-C22.2 No. 60601-1:14-3 <sup>rd</sup> edition	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

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(Tsns)
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)

■ Connectors



Unless stated otherwise, All dimensions are in millimeters and in accordance with DIN2766-1/2 CLASS C.

Mating Connectors				
Ref.	Details	Man.	Housing	Terminal
J1- Mains Input	3 Pin, Barrier, 6-32 Steel Screws, 0.8Nm or 7Lb-in Torque(1)			
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- 30AWG, Wire to Board	Molex	0511101260	0503948051
	12 Pin, 2mm, with Friction Lock, 24- 30AWG, IDT Cable to Board		0875681273	
J5- 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			

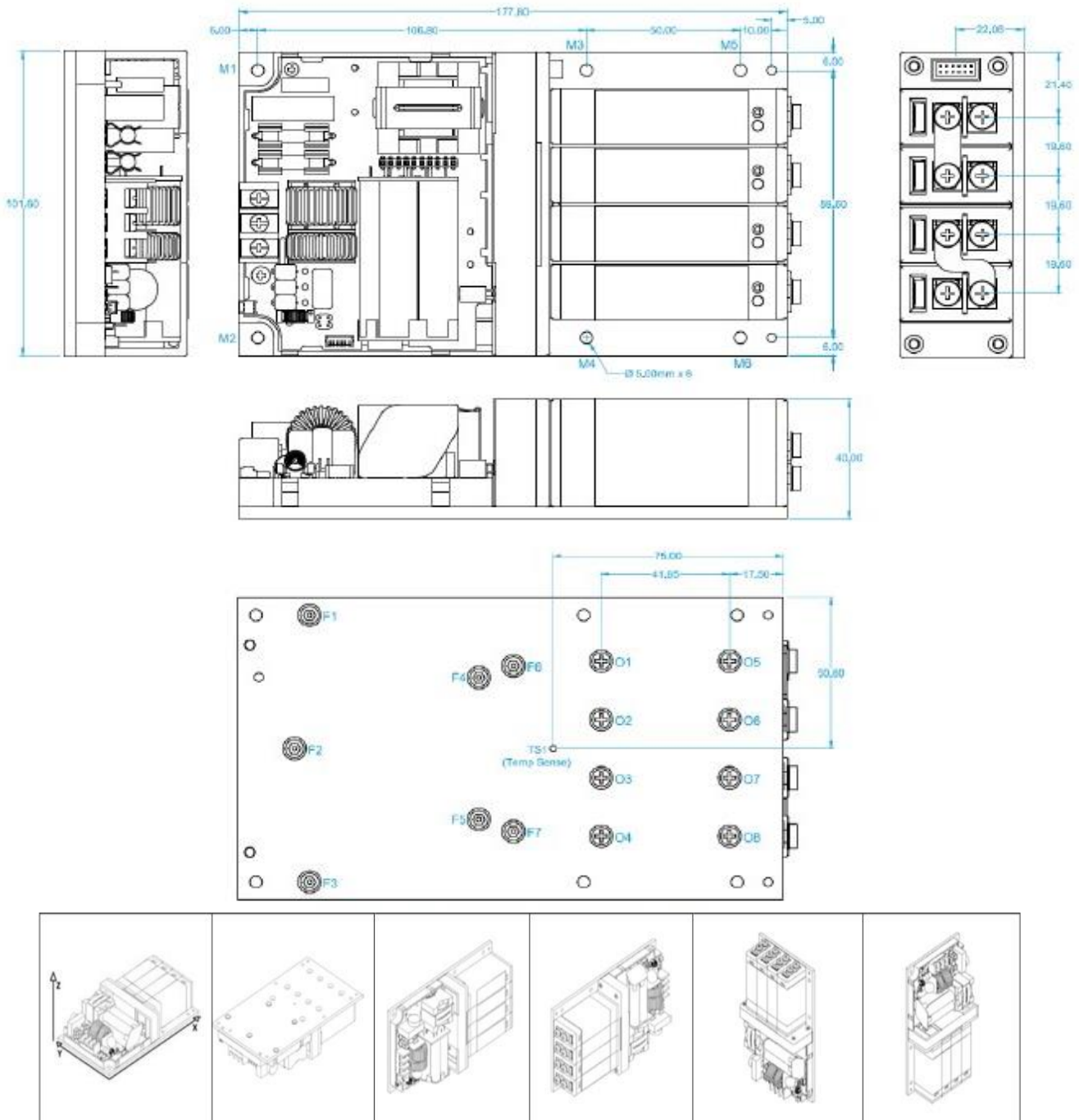
Notes:

1. Cable 14-18AWG, 300V, 16A, 105°C use approximately rated 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 Diagram**

Mechanical Dimensions and Mounting Screws			
Location	Details	Penetration	Tightening
Baseplate Mount: M1-M6	Hole size, Diameter 5.00mm	4mm Baseplate thickness	0.55NM
Output Module Mount: O1-O8	M3 CSK	M3 CSK, 8mm max length	0.35NM
Input Module Mount: F1-F5	Do not remove or adjust	Do not remove or adjust	Do not remove or adjust
Transformer Module Mount: F6-F7	M3 CSK	M3 CSK, 8mm max length	0.35NM

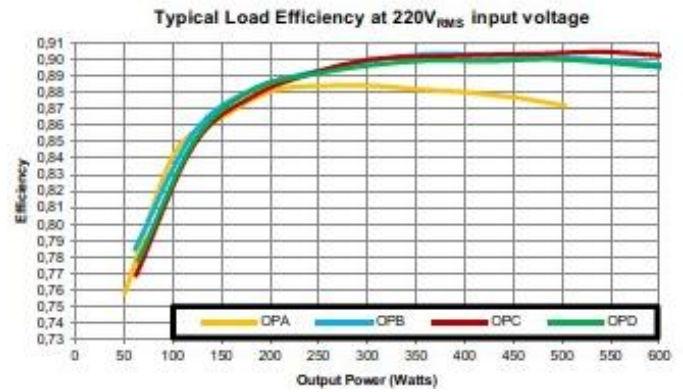
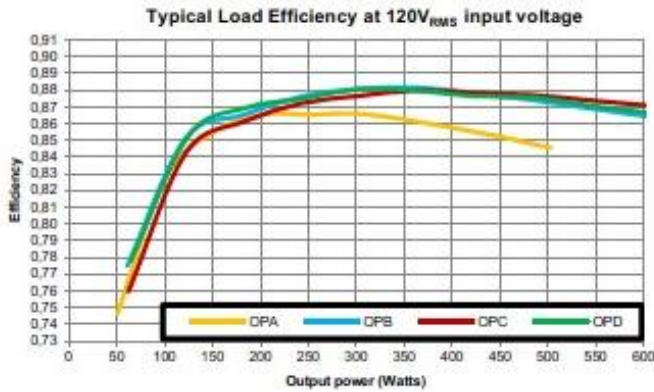
■ **Mechanical Diagram(cont.)**



Notes:

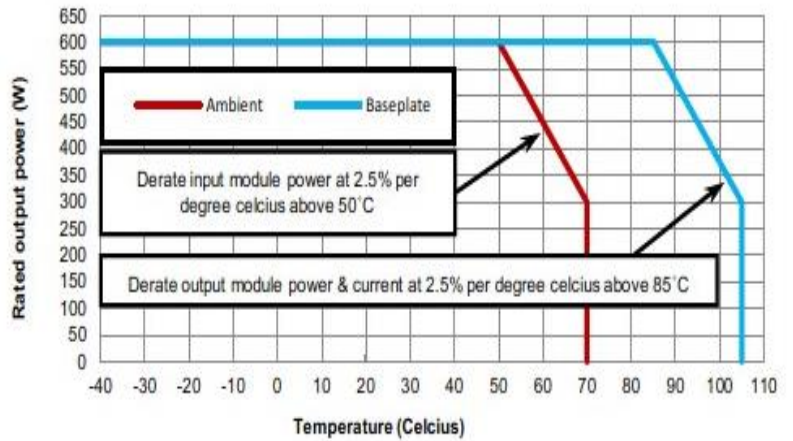
1. Line and other deratings applied where appropriate.
2. Ambient temperature is the temperature immediately surrounding the unit

### ■ Efficiency vs Load

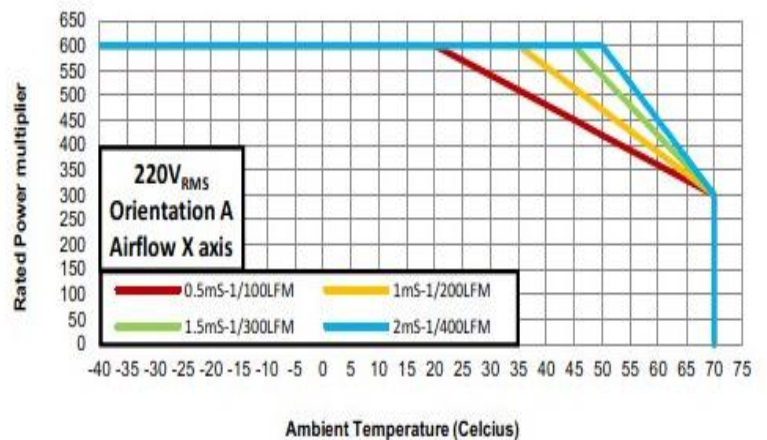


### ■ Thermal Performance

**Conduction Cooled:** Apply appropriate derating to both input and output modules based on ambient and baseplate temperatures. Ambient derating applies to input module rated & peak power. Baseplate derating applies to output module power and current, and bias supply power. Plot shows rated for HPOF-M600 series of a fully configured system with 4 x 150W output modules fitted. Similar deratings apply to input module peak power, output module peak power and output module current. See user manual for a detailed explanation and example calculations. Any mounting orientation is allowed

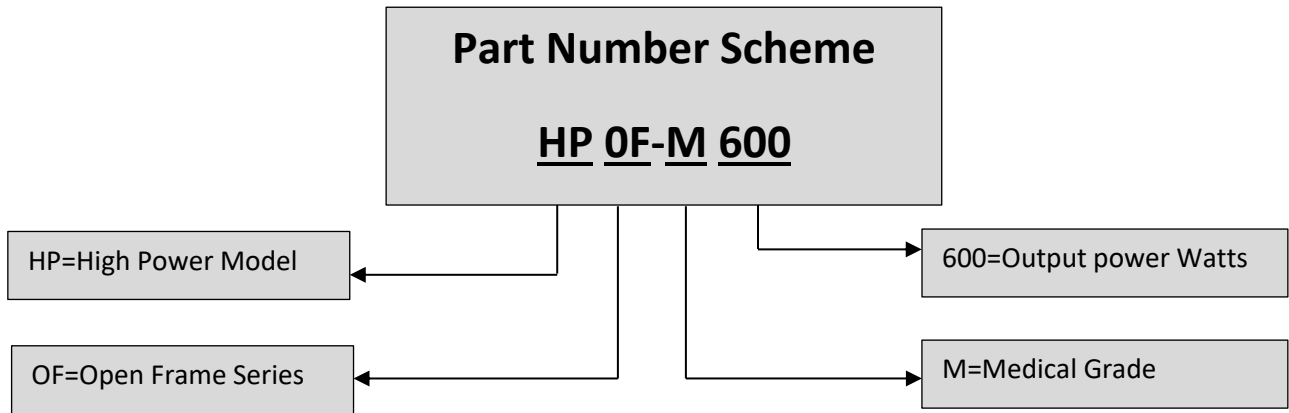
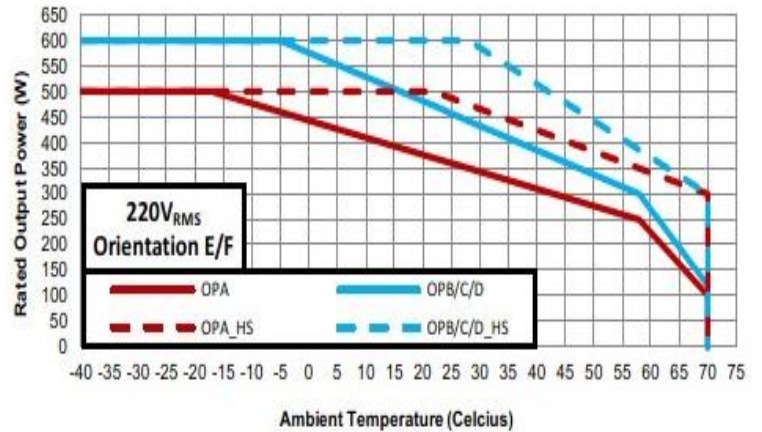


**Forced Air Cooled:** Plot shows typical performance of a fully configured system under controlled conditions with no heatsink attached and unit mounted 25mm from surface. Unit mounted A with air flow in X direction, 220Vac input voltage. Actual ratings must be determined in the user application. See user manual for more detailed information



■ **Thermal Performance(cont.)**

**Convection Cooled:** Plot shows typical performance of a fully configured system under controlled conditions. Solid line shows performance with no heatsink attached. Dashed line shows performance with standard Vox heatsink attached. Unit mounted in orientation E in free space, 220Vac input voltage. Actual ratings must be determined in the user application. See user manual for more detailed information.



\*Product images are for illustrative purposes only and may vary from actual design.

\*Specifications are subject to change without notice. Autec is not responsible for issues arising from errors or omissions.

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