

■ Features

- Single output to 6600W
- Input voltage range: 100-300Vac
- Output current: 130A
- Efficiency to 93%
- Output Ripple  $\leq 480\text{mVp-p}$
- OVP, OCP & SCP
- Current sharing
- Parallel operation function
- Digital control
- RS485 for output voltage control range of 42-58Vdc
- Dimensions: 310x230x86mm



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

■ Applications

- Specially designed for telecom, network access and data center applications.

■ Model List\*(See part number scheme for model number details)

Model Number	Input Voltage	Output Power	Output Voltage	Output Current	Efficiency	Certifications
HPGA6600-1481	100-300Vac	6600W	48V	130A	93%	UL/cUL/CE*

\*UL/cUL/CE Pending

■ Technical Data

Input Voltage	100-300Vac(220Vac nom.)
Input frequency	47-63Hz
Maximum input current	20A@180Vac full load
Input Pulse Current	60A @220Vac, full loading, 25°C
Power factor	$\geq 0.98$
Output Voltage	46-55V (Nominal 48V)
Output Power	6600W
Maximum Current	130A@48Vdc
Peak Output Efficiency	$\geq 93\%$ -@220Vac
Load Regulation	$\pm 5\%$
Ripple	$\leq 480\text{mVp-p}$ , 20MHz (10uf)
Shut Down Hold Time	$\geq 5\text{ms}$
Max Empty Loading Voltage	48-55V
Output Rising Time	$\leq 50\text{mS}$
Open Output Delay	$\leq 2\text{S}$ @220Vac
Input Connector	Input AC 3pin, 2pcs, 16A
Output Connector	JDT-13A 2
Operating Temperature	-10°C to 55°C (25°C nom.)
Storage Temperature	-30°C to 80°C (25°C nom.)
Humidity	10%-95% non-condensing

Technical Sales / Customer Service: +1-818-338-7788 • Email: [sales@autec.com](mailto:sales@autec.com)  
 31328 Via Colinas Suite 102 • Westlake Village, CA 91362 USA • [www.autec.com](http://www.autec.com)

August 15, 2019

■ **Technical Data(cont.)**

Altitude	0-4500m(typ.), Between 3000m to 4500m the operating temperature drops 1°C (De-rates) for every 200m
Barometric Pressure	70-106Kpa
Cooling	Forced Air
De-rated Output Power	50% @ 100-160Vac Input
Input over Voltage Protection	@60V, Power Supply will lock and need to be reset.
Over Current Protection	>150A, Auto-recovery
Short Circuit Protection	Will Auto-recover once the fault condition is removed
MTBF	10,000 hours @ 40C, full load and nominal input condition
Dimensions	310x230x86mm

■ **Safety and EMC**

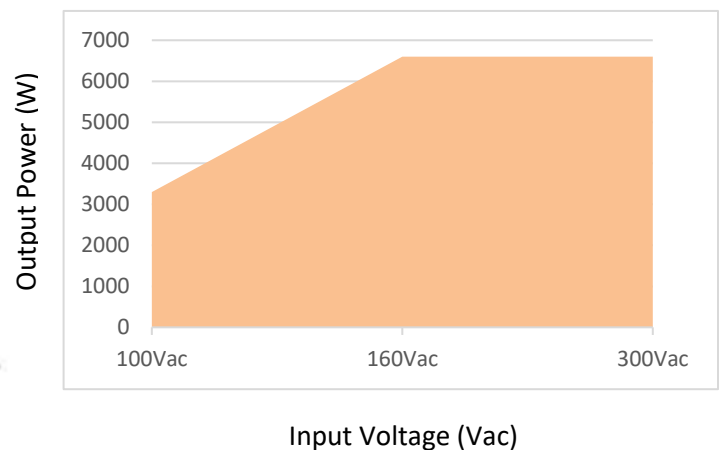
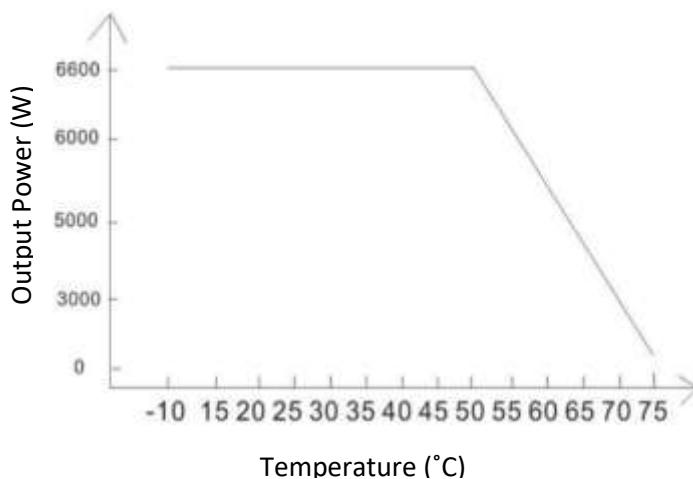
Safety Approvals	UL/cUL/CE (Pending)
Dielectric Withstanding Voltage	Input to Output Available value 3000Vac 50Hz or equal DC voltage 4240Vdc 1 minute ≤30mA
	Input to Ground Available value 1500Vac 50Hz or equal DC voltage 2120Vdc 1 minute ≤30mA
	Output to Ground Available value 500Vac 50Hz or equal DC voltage 710Vdc 1 minute ≤30mA
Insulation Resistance	Input to Output ≥10MΩ @500Vdc
	Input to Ground ≥10MΩ @500Vdc
	Output to Ground ≥10MΩ @500Vdc
Leakage Current	<3.5mA 220Vac/50Hz

Disclaimer:

Autec Power Systems' (Autec) Power Supplies are Hi-Pot tested during the manufacturing process. Autec assumes no responsibility for secondary Hi-Pot testing at customer location or designated production line(s). Should customer require further Hi-Pot testing, at their own production line, following assembly of the Power Supply into the customer's assembled fixture, Autec requests advance notice. This request must be communicated to Autec in a timely manner and is recommended to be requested at time of issuing each purchase order.

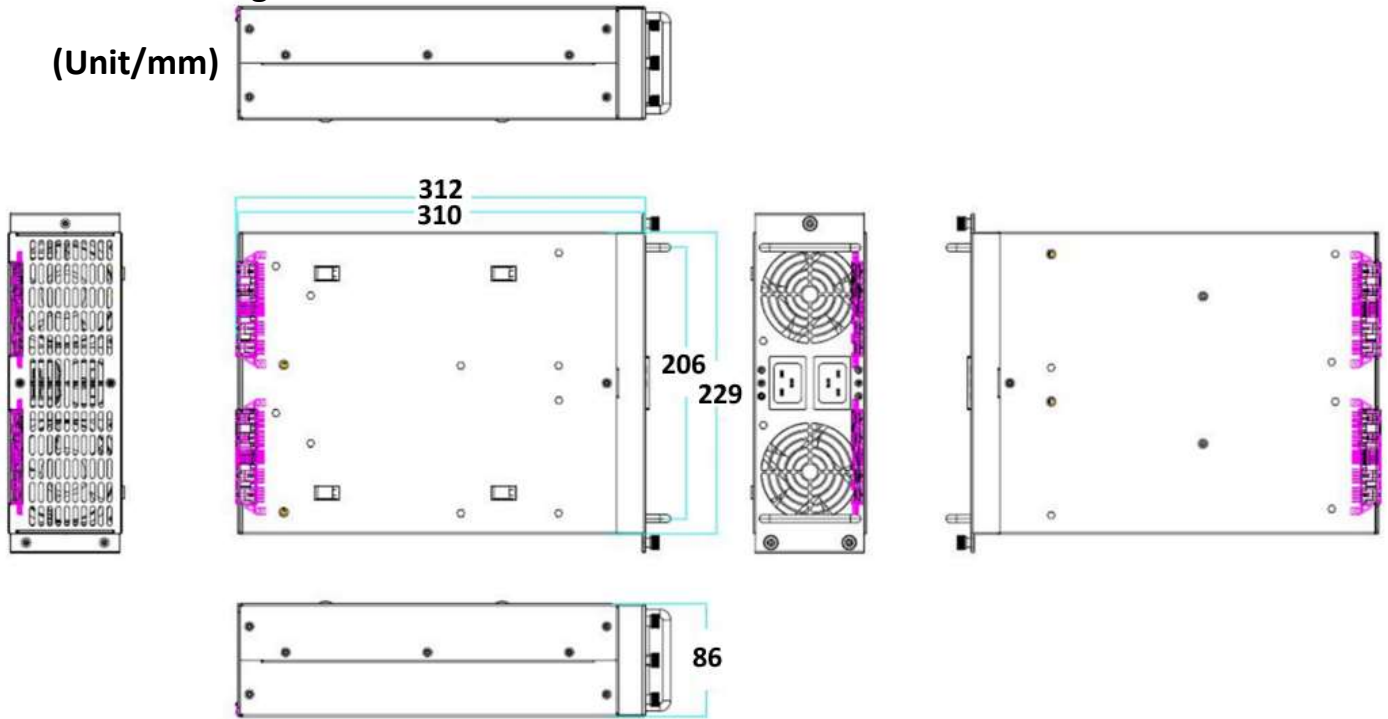
■ **Derating Curve**

De-rated Output power to 50% @ 100-160Vac Input



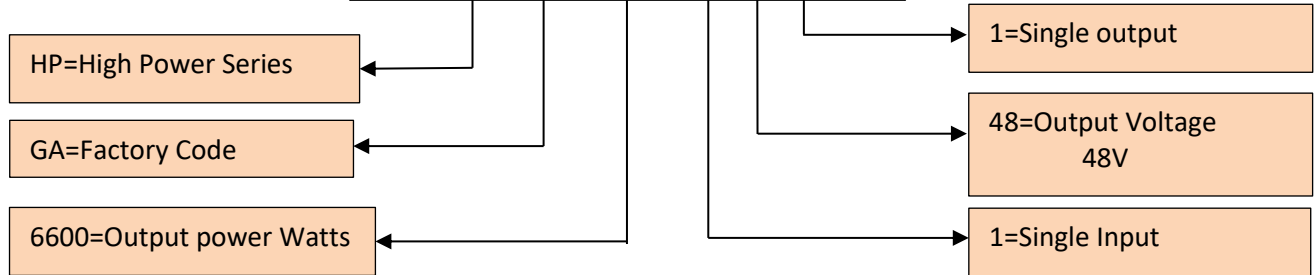
■ Mechanical Diagram

(Unit/mm)



Part Number Scheme

HP GA 6600-1 48 1



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

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