

■ **Features**

- Single output to 1600W
- Input voltage range: 100-300Vac
- Output current: 67A
- Efficiency to 92%
- Output Ripple $\leq 480\text{mVp-p}$
- OVP, OCP & SCP
- Current sharing
- Parallel operation function
- Digital control
- Dimensions: 230x108x43mm



*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
HPGA1600-1241	100-300Vac	1600W	24V	67A	92%	UL/cUL/CE*

*UL/cUL/CE Pending

■ **Technical Data**

Input Voltage	100-300Vac(220Vac nom.)
Input frequency	47-63Hz
Maximum input current	9A@180Vac full load
Input Pulse Current	$\leq 90\text{A @}220\text{Vac}$, full loading, 25°C
Power factor	≥ 0.98
Output Voltage	23.5-24.5V (Nominal 24V)
Output Power	1600W
Maximum Current	67A@180-264Vac
Peak Output Efficiency	$\geq 92\%$ -@220Vac
Load Regulation	$\pm 5\%$
Ripple	$\leq 480\text{mVp-p}$, 20MHz (10uf)
Shut Down Hold Time	$\geq 10\text{ms}$
Max Empty Loading Voltage	24.5V
Output Rising Time	$\leq 500\text{ms}$
Open Output Delay	$\leq 3\text{S@}220\text{Vac}$
Input Connector	Input AC 3pin, 2pcs, 16A
Output Connector	JDT-13A 2
Operating Temperature	-10°C to 55C (25°C nom.)
Storage Temperature	-20°C to 80°C (25°C nom.)
Humidity	20%-95% non-condensing

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■ **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
Input over Voltage Protection	26-27V, Power Supply will lock and need to be reset.
Over Current Protection	74-80A, Auto-recovery
Short Circuit Protection	Will Auto-recover once the fault condition is removed
MTBF	50,000 hours @ 40°C, full load and nominal input condition
Dimensions	230x108x43mm

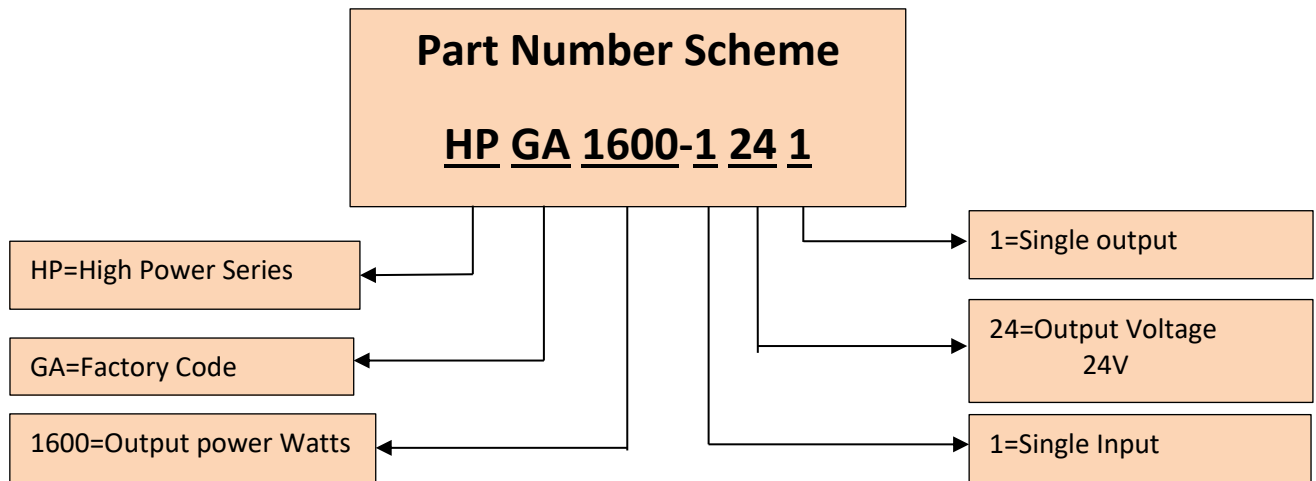
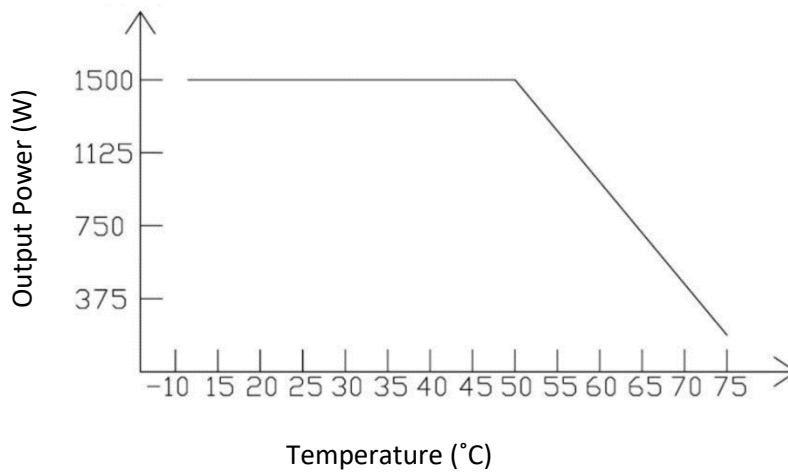
■ **Safety and EMC**

Safety Approvals	UL/cUL/CE (Pending)
CE, RE	CISPR 22(1998), FCC Part 15(2002-05)
Surge	Level 2 EN61000-4-5, EN55024 ETSI EN300 386 V1.3.2 Level 3 EN61000-4-5, EN55024 ETSI EN300 386 V1.3.2
EFT	Level 3 (2kV/5kHz B EN61000-4-5, EN55024 ETSI EN300 386 V1.3.2
ESD	Contact discharge: 4kV/8kV, Air discharge ±8kV/15kV, Discharge times: ±20 times for each pole, Performance Grade :B/R
CS	Harassment Intensity: 3V performance judgement level: A
RS	Harassment Intensity: 3V performance judgement level: A
Dielectric Withstanding Voltage	Input to Output Available value 1500Vac/10mA/1min.
	Input to Ground Available value 1500Vac/10mA/1min.
	Output to Ground Available value 500Vac/10mA/1min.
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



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