Product Feature

1. AC input range selectable by switch
2. Withstand 300VAC surge input for 5 second
3. Protections:Short circuit/Overload/Over voltage/Over temperature
4. Forced air cooling
5. Built-in cooling Fan ON-OFF control
6. 1U low profile
7. Withstand 5G vibration test
8. High operating temperature up to 70℃
9. 3 years warranty
10. No load power less than 5W

RoHS CE 3 years Warranty 960g/Typ.

Describe

The EN-600 series is a 600W single-output enclosed power supply with 115VAC or 230VAC inputs (via switch selection)and offers 5V, 12V, 15V, 24V, 36Vand 48V outputs throughout the series.

In addition to an efficiency of up to 89%, the built-in long-life fan enables the EN-600 to operate at full load temperatures ranging from -25°C to +70°C.With very low no-load power consumption (less than 5W), the terminal system can easily meet international energy requirements.The EN-600 has complete protection function and anti-5G vibration capability; Complying with international safety regulations UL62368-1, the EN-600 provides a cost-effective solution for a variety of industrial applications.

Application areas

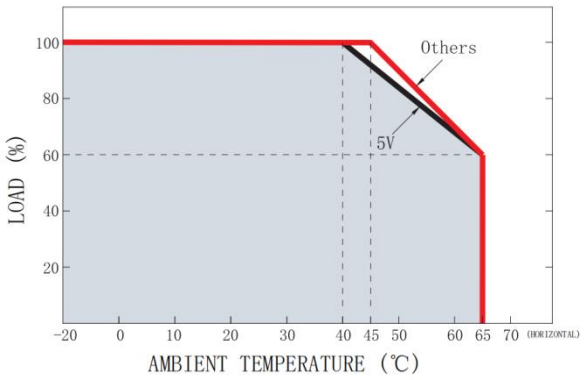
- Industrial automation machinery
- Mechanical and electrical equipment
- Industrial control system
- Electronic instruments and equipment

Electrical Specifications

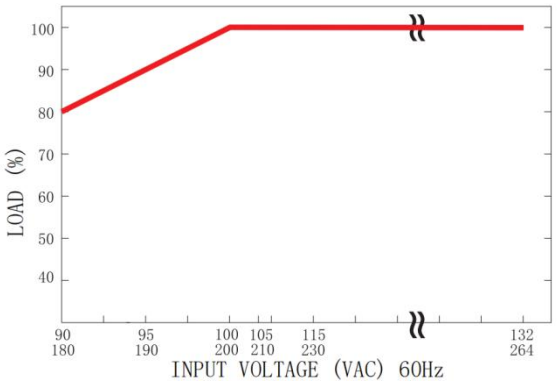
Model number	EN-600-05	EN-600-12	EN-600-15	EN-600-24	EN-600-36	EN-600-48
DC output	5V	12V	15V	24V	36V	48V
Current	100A	50A	40A	25A	16.6A	12.5A
Current range	0～100A	0～50A	0~40A	0~25A	0～16.6A	0~12.5A
Rated power	500W	600W	600W	600W	597.6W	600W
Ripple and Noise(Max)(20MHZ)	200mVp-p	200mVp-p	240mVp-p	240mVp-p	360mVp-p	360mVp-p
Voltage adjustment range	4.5-5.5V	11.4～13.2V	4.25~16.5V	22.8~26.4V	34.2~39.6V	45.6~52.8V
Voltage accuracy	±2.0%	±1.5%	±1.0%	±1.0%	±1.0%	±1.0%
Linear adjustment rate	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%	±0.5%
Load adjustment rate	±2.0%	±1.0%	±0.5%	±0.5%	±0.5%	±0.5%
Start/rise time	1300ms,50ms/230VAC 1300ms,50ms/115VAC at full load					
Holding time(Typ.)	16ms/230VAC 12ms/115VAC at full load					
Input voltage range	90~132VAC/180~264VAC(select by switch)255~370VDC(switch on 230VAC)					
Frequency range	47-63Hz					
Efficiency	86%	90%	90%	91%	92%	92%
Input current	12A/115VAC 7.5A/230VAC					
Surge current (cold start)	35A/115VAC 60A/230VAC					
Leakage current	<2mA @240V					

Overload protection	105-150% of rated output power					
	Protection mode:Locks for 3 seconds after constant current protection and recovers after power-on					
Overvoltage protection	5.75-6.7V	13.8-16.2V	18-21V	28.8-33.6V	41.4-48.6V	55.2-64.8V
	Protection mode:Lock protection and restore after power-on					
Short circuit protection	Output terminal short circuit					
	Protected mode:hiccup mode.The converter should re-work after fault disappear					
Fan On/Off Control (TyP.)	Rt3≥50°C the fan is on;≤40°C the fan is off					
Operating temperature/humidity	-30°C-+70°C/20-90%RH,No condensation (see "Derating curve")					
Storage temperature/humidity	-40°C-+85°C/10-95%RH,No condensation					
Temperature coefficient	±0.03%/°C(0-50°C)					
Overvoltage level	10~500Hz, 5G 10 minutes/cycle,X, Y, Z 60 minutes each					
Safety specification	Compliance with UL62368-1,TUV BS EN/EN62368-1, BS EN/EN61558-1/-2-16,CCC GB4943.1,BSMI CNS14336-1,EAC TP TC 004					
Withstand voltage	I/P-O/P:4KVAC I/P-FG:2KVAC O/P-FG:1.25KVAC					
Insulation impedance	I/P-O/P,I/P-FG,O/P-FG:100M Ohm/500VDC					
Electromagnetic compatibility	Compliance with EN55032,EN55014,EN61000-3-2,GB/T9254, BSMI CNS13438, FCC Class A					
dimension	Reference structure diagram					
weight	0.96kg					
Heat dissipation mode	Natural convection					
MTBF	>60Khours MIL-HDBK-217F(25°C)					

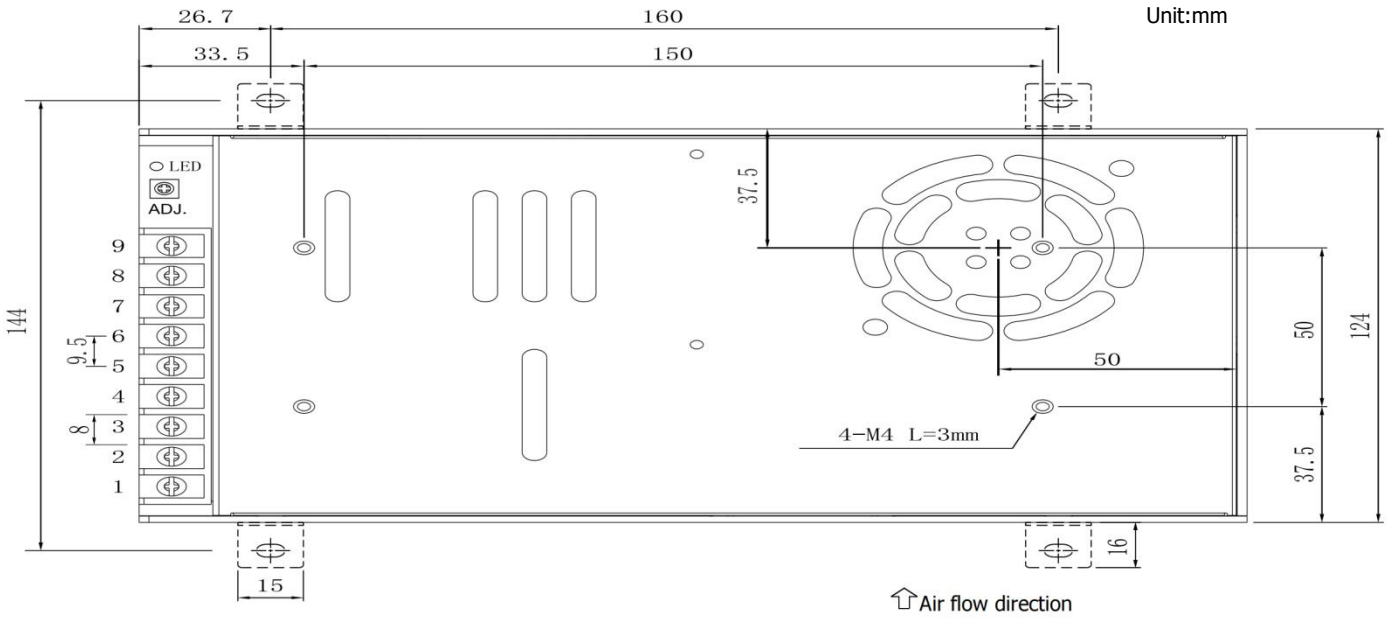
Derating Curve

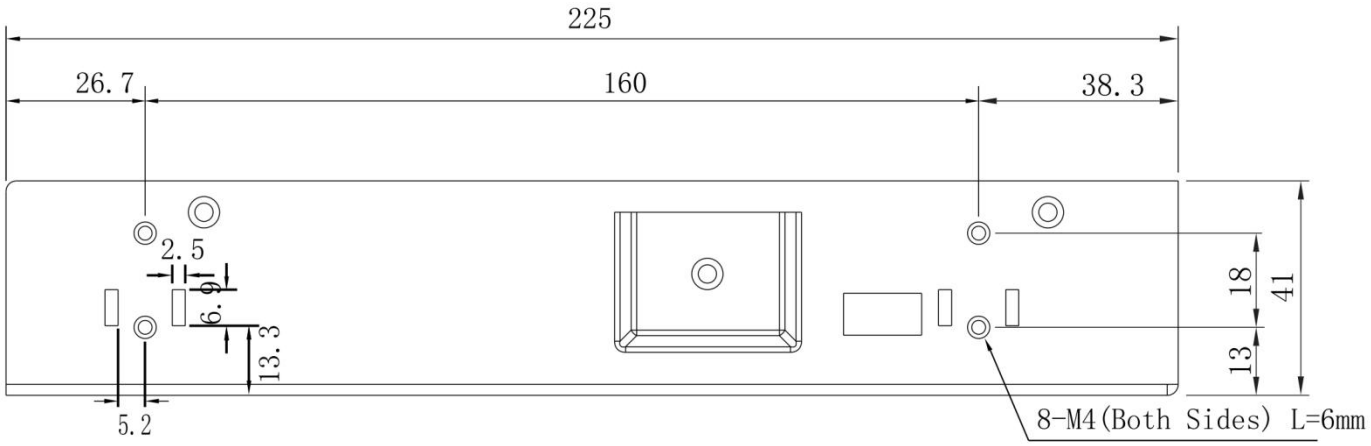


Output Derating VS Input Voltage



Mechanical Specification





Terminal Pin No. Assignment

Pin	Function
1	AC/L
2	AC/N
3	FG⏚
4-6	DC output -V
7-9	DC output +V