

Product Feature

1. Full range AC voltage input
2. Small size, ultra-thin type, thickness 30mm
3. No-load power consumption <0.2W
4. Protection type: Output short circuit/over load/over voltage
5. Natural air cooling
6. Complies with IEC/BS EN/EN60335-1(PD3) and IEC/BS EN/EN61558-1,2-16
7. It can be operated at an altitude of 5000m
8. High efficiency, long life and high reliability
9. Power start LED indication
10. Overvoltage level III
11. 100% full load aging test



3 years
Warranty

660g/Typ.

Describe

The EN-200 series is a 200W single-output enclosed power supply with a 30mm low profile design with 115VAC or 230VAC inputs (via switch selection) and 5V, 12V, 15V, 24V, 36V and 48V outputs throughout the series.

In addition to the efficiency of up to 90%, the design of the metal mesh housing enhances the heat dissipation capacity so that the EN-200 can operate in the temperature range of -25°C to +70°C with out a fan. With very low no-load power consumption (less than 0.75W), the terminal system can easily meet international energy requirements. EN-200 has complete protection function and anti-5Gvibration capability; It complies with international safety regulations UL62368-1, and the EN-200 provides a cost-effective solution for a variety of industrial applications.

Application areas

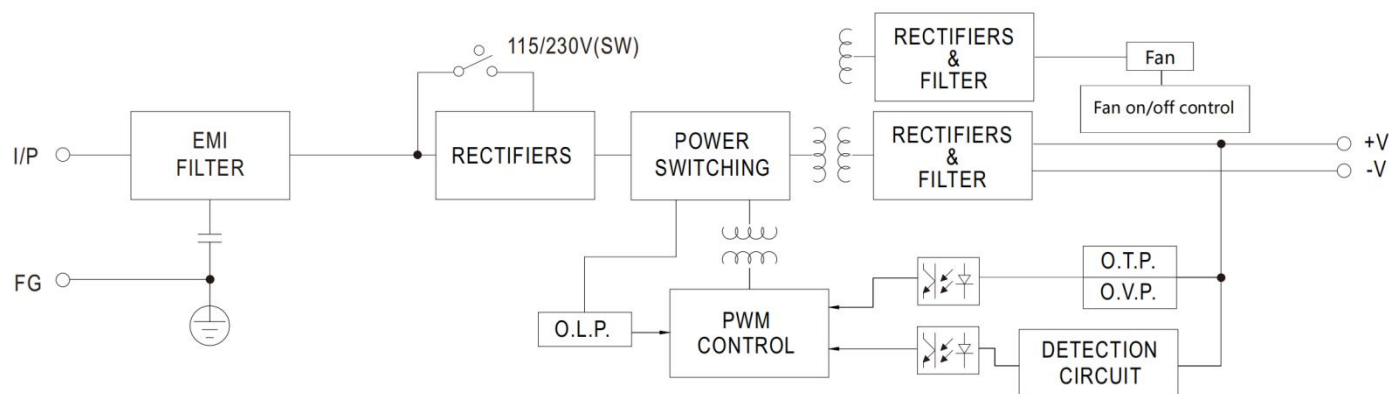
- Industrial automation machinery
- Mechanical and electrical equipment
- Industrial control system
- Electronic instruments and equipment

Electrical Specifications

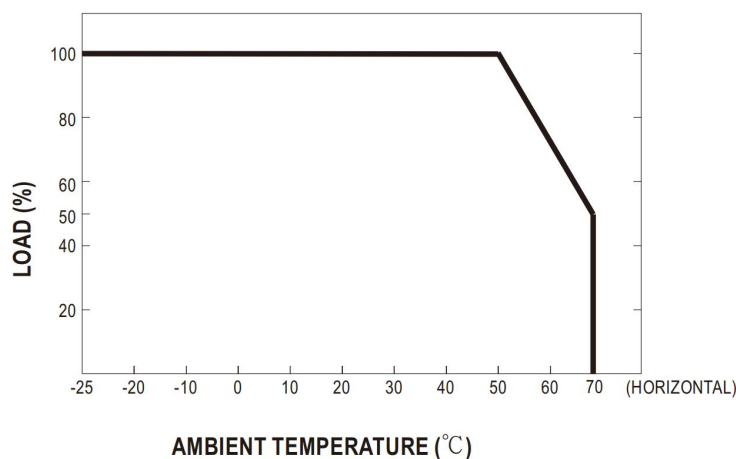
Model number	EN-200-05	EN-200-12	EN-200-15	EN-200-24	EN-200-36	EN-200-48
DC output	5V	12V	15V	24V	36V	48V
Current	40A	16.7A	13.4A	8.4A	5.6A	4.2A
Current range	0-40A	0-16.7A	0-13.4A	0-8.4A	0-5.6A	0-4.2A
Rated power	200W	200W	201W	201.6W	201.6W	201.6W
Ripple and Noise(Max)(20MHZ)	150mVp-p	150mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p
Voltage adjustment range	4.5-5.5V	10.2-13.8V	13.5-18V	21.6-28.8V	32.4-39.6V	43.2-52.8V
Voltage accuracy	±3%	±1.5%	±1%	±1%	±1%	±1%
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	1500ms,50ms/230VAC 1500ms,50ms/115VAC at full load					
Holding time(Typ.)	16ms/230VAC 12ms/115VAC at full load					
Input voltage range	85~132VAC/176~264VAC(select by switch)240~370VDC(switch on 230VAC)					
Frequency range	47-63Hz					
Efficiency	86%	87%	88%	89%	89%	90%
Input current	6.8A typ.@115V 3.4A typ.@230V					
Surge current (cold start)	60A @115V 60A @230V					
Leakage current	<2mA @240V					

Overload protection	110-140% of rated output power					
	Protected mode:hiccup mode. The converter should re-work after fault disappear					
Overvoltage protection	5.75-6.9V	13.8-16.2V	18.7-21.7V	28.8-33.6V	41.4-48.6V	55.2-64.8V
	Protected mode:hiccup mode.the converter should re-work after fault disappear					
Short circuit protection	Output terminal short circuit					
	Protected mode:hiccup mode.The converter should re-work after fault disappear					
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,5G10 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	660g					
Heat dissipation mode	Natural convection					
MTBF	>60Khours MIL-HDBK-217F(25°C)					

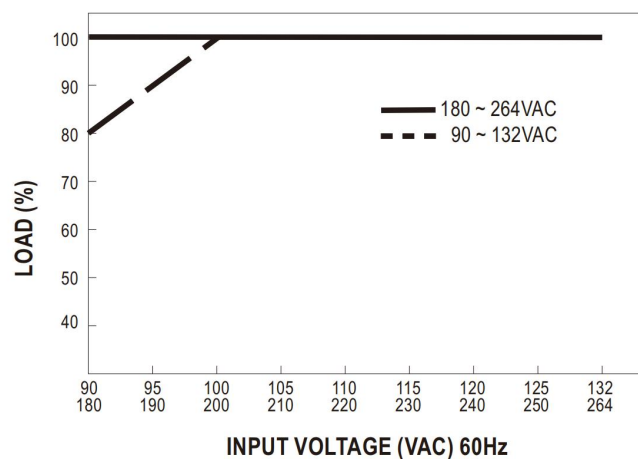
Block Diagram



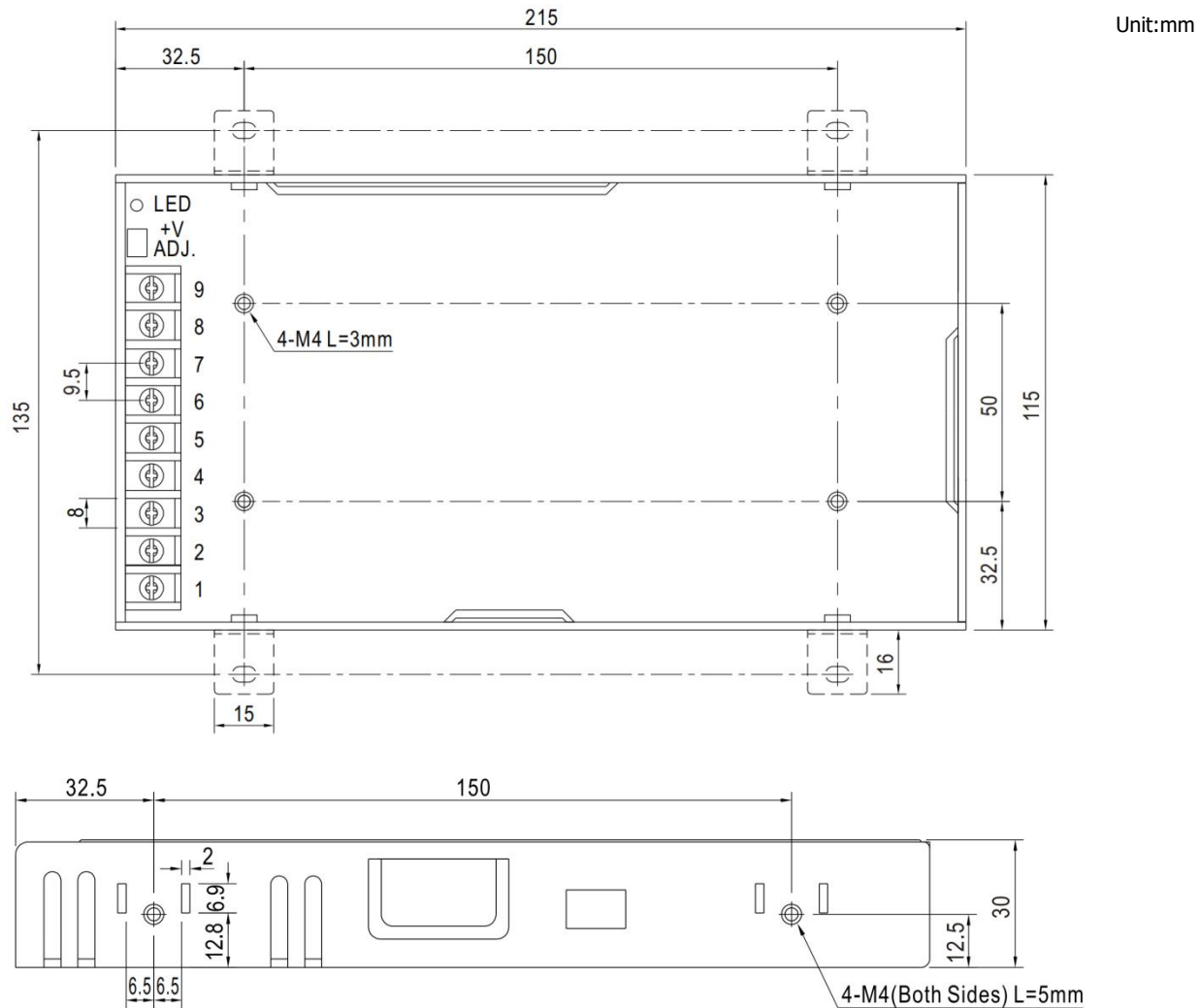
Derating Curve



Output Derating VS Input Voltage



Mechanical Specification



Terminal Pin No. Assignment

Pin	Function
1	AC/L
2	AC/N
3	FG $\frac{1}{2}$
4-6	DC output -V
7-9	DC output +V

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