

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**
410g/Typ.

Describe

The EN-150 series is a full-range 85V-264V AC input, with 12V, 15V, 24V, 36V and 48V outputs available throughout the series. With 30mm ultra-thin design, single output closed switching power supply.

In addition to the efficiency of more than 87%, the design of the metal mesh housing enhances the heat dissipation capacity, so that the EN-150 series products can operate in the temperature range of -30°C~+70°C without a fan. Provides ultra-low no-load power consumption (less than 0.2W), making it easy for the end system to meet international energy requirements. The EN-150 is fully protected and complies with international safety regulations IEC/BSEN/EN60335-1(PD3) and IEC/BSEN/EN61558-1,2-16, UL62368-1 and GB4943.

The EN-150 series provides a cost-effective solution for a wide range of industrial applications.

Application areas

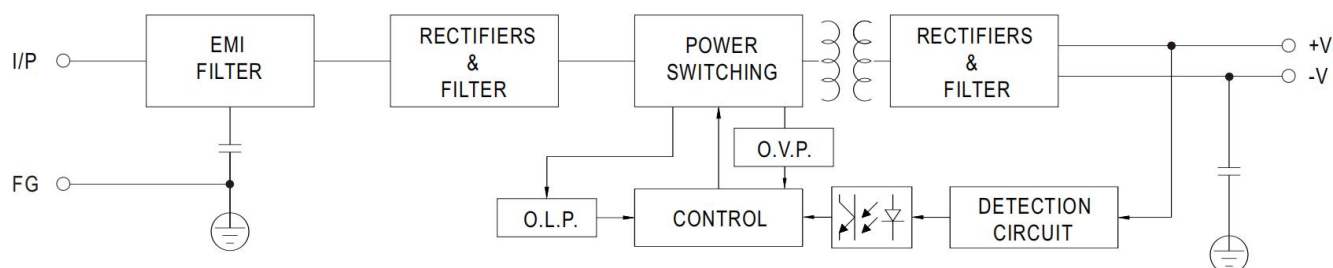
- Industrial automation machinery
- Mechanical and electrical equipment
- Industrial control system
- Electronic instruments

Electrical Specifications

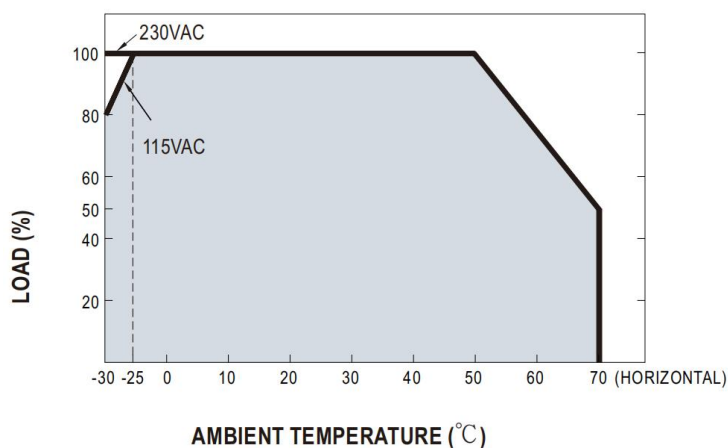
Model number	EN-150-12	EN-150-15	EN-150-24	EN-150-36	EN-150-48
DC output	12V	15V	24V	36V	48V
Rated current	12.5A	10A	6.5A	4.3A	3.3A
Current range	0-12.5A	0-10A	0-6.5A	0-4.3A	0-3.3A
Rated power	150W	150W	156W	154.8W	158.4W
Ripple and Noise(20MHz)	150mVp-p	180mVp-p	200mVp-p	200mVp-p	200mVp-p
Voltage adjustment range	10.2-13.8V	13.5-18V	21.8-28.8V	32.4-39.6V	43.2-52.8V
Linear adjustment rate	±1%	±1%	±1%	±1%	±1%
Load adjustment rate	±2%	±2%	±2%	±2%	±2%
Start /rise(Typ.)	1000ms,30ms/240VAC 2000ms,30ms/100VAC at full load				
Holding time (Typ.)	10ms at full load 115VAC				
Input voltage range	90-132VAC/180-264VAC via switch selection				
Frequency range	47-63Hz				
Efficiency(230VAC)	85%@230V	85%@230V	87%@230V	87%@230V	89%@230V

Maximum input current	3.0A typ.@115V 2.0A typ.@230V	3.0A typ.@115V 2.0A typ.@230V	3.0A typ.@115V 2.0A typ.@230V	3.0A typ.@115V 2.0A typ.@230V	3.0A typ.@115V 2.0A typ.@230V
Inrush current	150A typ.@230V				
Leakage current	<1mA @264V				
Overload protection	110-140%of rated output power				
	Protected mode:hiccup mode.the converter should re-work after fault disappear				
Overvoltage protection	Protection voltage <20V	Protection voltage <25V	Protection voltage <35V	Protection voltage <48V	Protection voltage <62V
	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				
Withstand voltage	Input-output :4KVAC, input-ground:2KVAC, output-ground:1.25KVAC				
Insulation impedance	Input-output and input -output -ground:20M Ohms/500VDC/25°C,70%RH				
Electromagnetic compatibility	Meet EN 55032, GB/T9254, FCC Class B, CE 62368 (The power supply housing is installed on a metal plate not less than 380*380*1mm)				
Operating temperature/humidity	-30°C+70°C/20-90%RH,non-condensing(please refer to "Derating curve")				
Storage temperature/humidity	-40°C+85°C/10-95%RH, non-condensing				
MTBF	>50KH MIL-HDBK-217F(25°C)				
Dimension	159*97*30mm				
Weight	0.41kg				

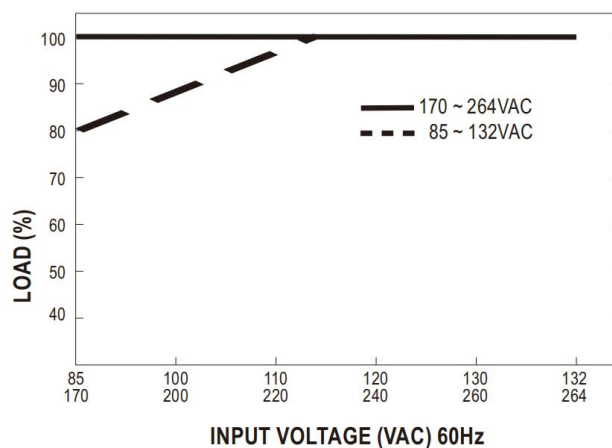
Block Diagram



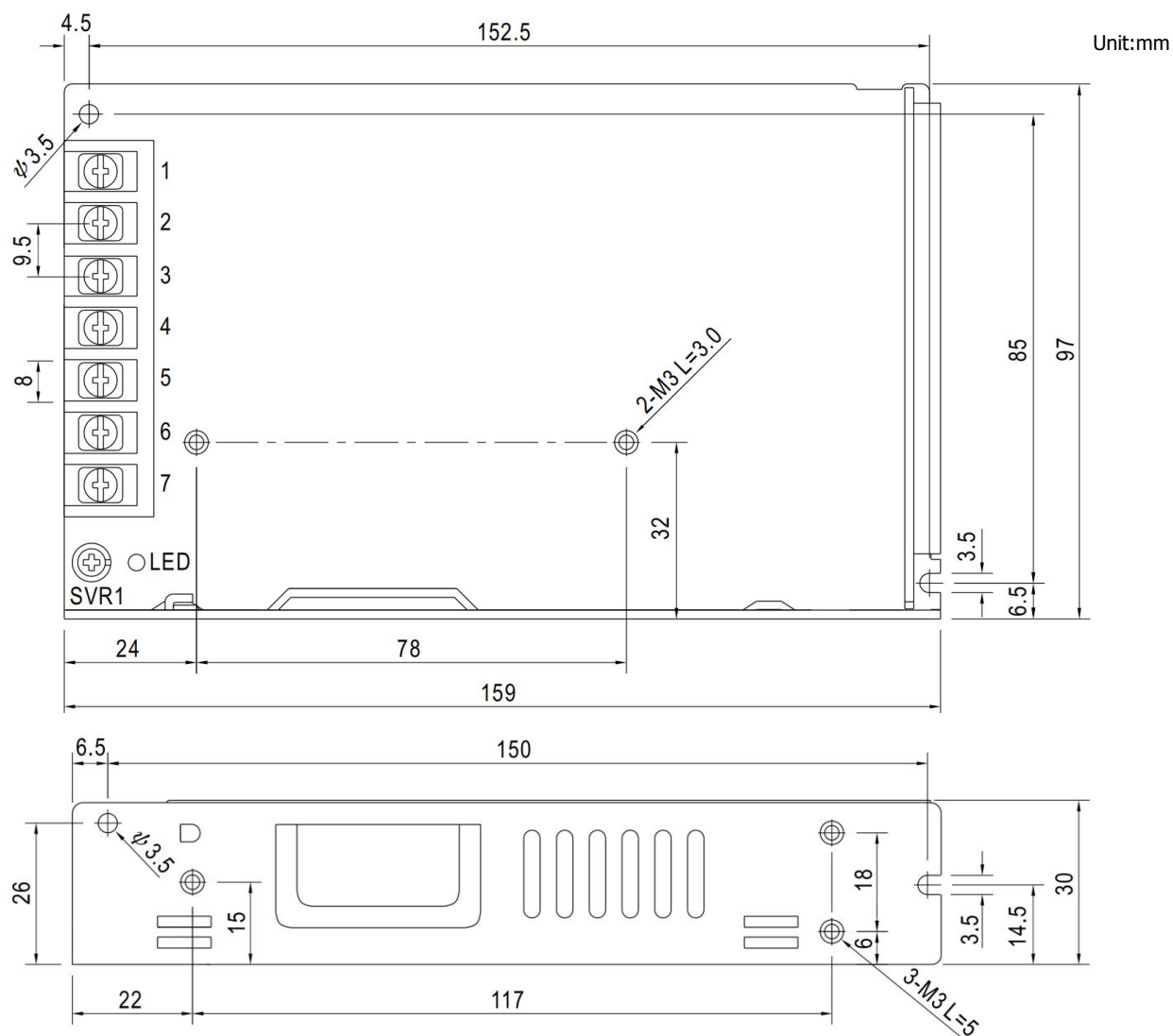
Derating Curve



Output Derating VS Input Voltage



Mechanical Specification



Terminal Pin No. Assignment

Pin	Function
1	AC/L
2	AC/N
3	FG
4,5	DC output -V
6,7	DC output +V

DONGGUAN AMCHARD-POWER TECHNOLOGY CO., LTD.

www.amchard-power.com

Mail:info@amchard-power.com