

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











Describe

The EN-100 series is a full range 85V-264VAC 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-100 series products can operate in the temperature range of -30 ° C++70 ° C without fans. 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-100 is fully protected and complies with international safety regulations IEC/BSEN/EN 60335-1(PD3)and IEC/BSEN/EN 61558-1,2-16,UL 62368-1 and GB4943.

The EN-100 series provides a cost-effective solution for a wide range of industrial applications.

Application areas

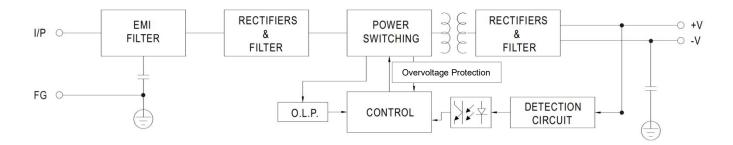
- Industrial automation machinery
- Mechanical and electrical equipment
- Industrial control system
- Electronic instruments and equipment

Electrical Specifications

Model number	EN-100-12	EN-100-15	EN-100-24	EN-100-36	EN-100-48
DC output	12V	15V	24V	36V	48V
Rated current	8.5A	7A	4.5A	2.8A	2.3A
Current range	0-8.5A	0-7A	0-4.5A	0-2.8A	0-2.3A
Rated power	102W	105W	108W	100.8W	110.4W
Ripple and Noise (20MHz)	120mVp-p	150mVp-p	150mVp-p	200mVp-p	200mVp-p
Voltage adjustment range	10.2-13.8V	13.5-18V	21.6-28.8V	32.4-39.6V	43.2-52.8V
Linear adjustment rate	±1%	±1%	士1%	±1%	±1%
Load adjustment rate	±2%	±2%	±2%	±2%	±2%
Start /rise (Typ)	1000ms,30ms/23	1000ms,30ms/230VAC 2000ms,30ms/115VAC at full load			
Holding time (TyP)	20ms/230VAC	20ms/230VAC 10ms/115VAC at full load			
Input voltage range	AC 85V-264V	AC 85V-264V DC 120V-373V			
Frequency range	47-63HZ				
Efficiency (230VAC)	85%	85%	86%	87%	88%
Maximum input current	1,90Atyp.@115V	1,90Atyp.@115V 1.2A typ.@230V			
Inrush current	60Atyp.@230V	60Atyp.@230V Coldstart			
Leakage current	<1mA @240	<1mA @240V			
Overload protection	110%-150% of rated output power				
	Protected mode:hiccup mode.the converter should re-work after fault disappear				

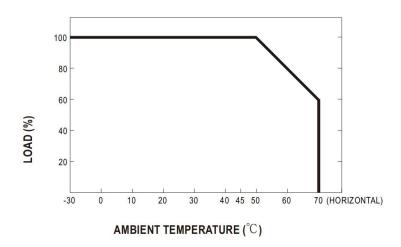
Overvoltage protection	Output voltage 110%-140%		
	Protected mode:hiccup mode.the converter should re-work after fault disappear		
Short circuit protection	Output terminal short circuit		
	Protected mode:hiccup mode.the converter should re-work after fault disappear		
Dimension	97x129x30mm		
Weight	0.34kg		

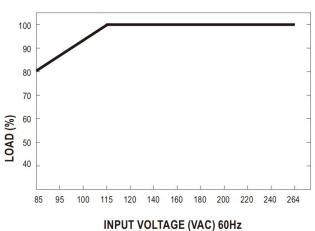
Block Diagram



Derating Curve

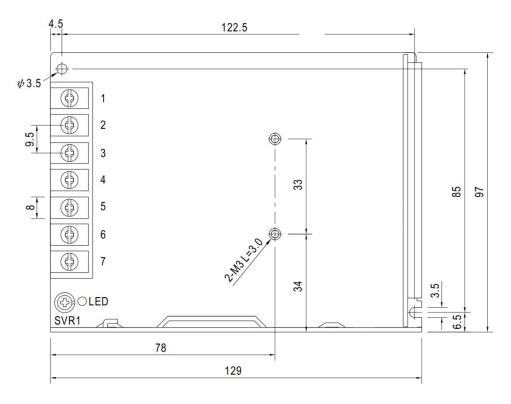
Output Derating VS Input Voltage



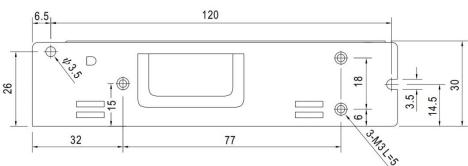




Mechanical Specification



Unit:mm



Terminal Pin No. Assignment

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

DONGGUAN AMCHARD-POWER TECHNOLOGY CO., LTD.

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