

Product Features

- Input voltage range 176~264Vac;
- High efficiency, low temperature rise, high reliab
- Built-in EMI filter, lower ripple & low noise;
- Protections: over current protection, over load p short circuit protection.



1. Electric Characteristic

1		Input		
No.	Item	Technical Requirements	Unit	Note
1.1	Rated Input Voltage	200~240	Vac	
1.2	Input Voltage Range	176~264	Vac	Refer to derating curve
1.3	Rated Frequency	47~63(Typ. 50/60)	Hz	
1.4	Max. Input Current	0.	A	Vin=190Vac, rated load
1.5	Inrush Current	≤50	A	240Vac input, rated load, 25℃
2		Output		
No.	Item	Technical Requirements	Unit	Note
2.1	Rated output voltage	24	Vdc	
2.2	Rated output current	2.5	A	
2.3	Max Output power	60	W	Refer to derating curve
2.4	Efficiency	≥86%	-	230Vac input, rated load, 25℃
2.5	Line regulation	±1%		
2.6	Load regulation	±2%		
2.7	Voltage tolerance	±2%		
2.8	Ripple & Noise	≤200	mVp-p	25℃, 230VInput, Rated Load, Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.
2.9	Dynamic Response Overshoot	≤5	%	25%~50%~25 and 50%~75%~50% load dynamic, the half-wave period is 4mS, the current change slope is 0.1A/uS
2.10	Turn-on Delay Time	≤3	s	200~240Vac input, rated load

2.11	Shutdown hold time	-	ms	Rated input voltage, rated load
2.12	Turn-on/off Overshoot	≤±10%		
3	Protection			
No.	Item	Technical Requirements	Unit	Note
3.1	Current limiting protection	3~4	A	Hiccup model, recovers automatically after fault condition is removed
3.2	Short Circuit Protection	Long time short-circuit protection without damage, recovers automatically after fault condition is removed.		

2. Environment

No.	Item	Specs	Unit	Note
1	Working temperature range	-30~ +70(Typ. 25)	°C	Refer to derating curving
2	Max case temperature	90	°C	Tc
3	Storage temperature range	-40~ +80(Typ. 25)	°C	
4	Relative humidity	20~95	%	No condensing
5	Altitude	0~5000	m	
6	Protection Rating	IP67		The power supply shall not be immersed in water for more than 0.5 hours (less than 1 meter in depth); It shall not be buried underground for use.
7	Cooling method	Ventilation cooling		

3. Reliability Requirement

MTBF≥100Khours.

No.	Item	Parameters/mm	Note
5.1.1	Overall Dimension	144(L)*51 (W)*28.5(H)	
5.1.2	Three core input cable	Length:300mm	Brown(L) Blue(N) Yellow-Green (G)

5.1.3	Two-core output cable	Length:200mm	Red(V+) Black(V-)
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Test condition: 25°C, rated input, rated load, MIL-HDBK-217F Notice 2

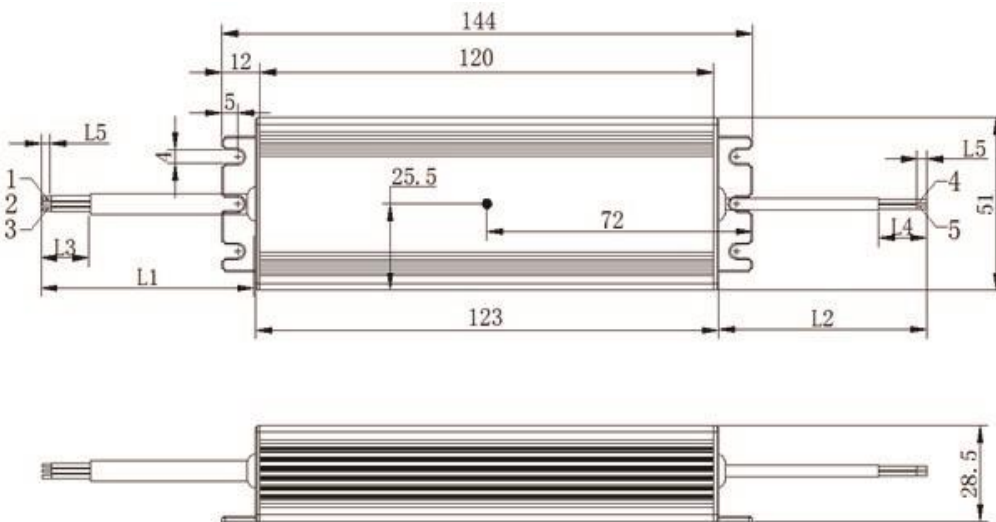
4. Safety standards

No.	Item	Testing Condition	Note
4.1.	Dielectric Strength (Hi-Pot)	I/P-O/P	3750Vac/10mA/1min
		I/P-FG	1750Vac/10mA/1min
		O/P-FG	500Vdc/10mA/1min
4.2	Insulation Resistance	I/P-O/P	≥100MΩ@ 500Vdc
		I/P-FG	≥100MΩ@ 500Vdc
		O/P-FG	≥100MΩ@ 500Vdc
4.3	Leakage Current	<0.75mA	240Vac/60Hz
4.4	Safety Standard	GB19510.1,,14/EN61347-1,-2-13/EN62384/UL8750/IP67	
4.5	Electromagnetic Interference	EN61547;EN61000-4-2,3,4,5,6,8,11; (surge immunity Line-Earth 4KV, Line-Line 2KV)	

5. Mechanic Specification

5.1 Terminals (Unit: mm)

5.2 Dimension (Unit: mm)

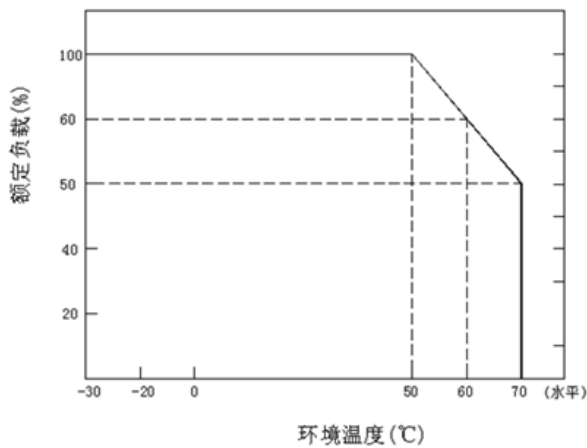


Note: L1=300±5mm; L2=200±5mm; L3=30±2mm; L4=30±2mm; L5=5±1mm

6. Derating Curve

In order to ensure that the product can achieve the expected design service life, please configure the AC supply voltage and load of the power supply according to the derating requirements of the following curve. When the ambient temperature rises to a certain value, the output power also needs to be derated.

■ 环境温度降额曲线



■ 输入电压降额曲线

