光電節能、智慧科技最佳夥伴

Features

- * Selected AC input voltage by a switch
- * Withstand 300Vac surge voltage for 5 seconds
- * Full Protections: Short-circuit/ Over-voltage
- / Over-current/ Over temperature
- * Built-in smart FSC (fan speed control) and fan ON/OFF is controlled by output loading
- * LED indicator for normal output voltage operating.
- * 1U low profile
- * IEC/EN 62368-1 design compliance
- * Up to 5000 meters operating altitude (note#4)
- * High efficiency and high reliability

Safety Certification

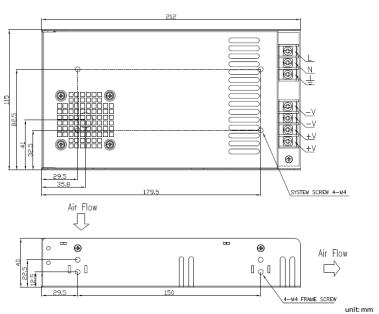




Description

This is an AC to DC switching mode power supply which can provide 350 watts continuous power and forced cooling by a smart FSC circuit. It complies with world-wide Safety and EMC regulations (refer to details below). This PSU is high c/p (capability/price) value for various industrial applications.

Mechanical Specification



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Model P/N		HA-1351-24NL	HA-1351-12NL
Ou	tput Specification		
•	Rated power	350W	
•	Rated voltage	24V	12V
•	Rated current	14.6A	29.2A
•	Ripple & Noise (max.) (note#2)	150mV	
•	Line & load regulation	±1%	
•	Hold-up time (typ.)	16ms	
•	Timing: AC ON delay / rising (max.)	2 sec / 30ms	
Inp	ut Specification		
•	Rated voltage range	100V~120VAC / 200~240VAC, by select switch	
•	Operated voltage range (note#5)	90V~132VAC / 180~264VAC, 300Vac for 5 sec	
•	Current range (max.)	6.8A/100Vac; 3.4A/200Vac	
•	Inrush current (typ.)	50A/115Vac; 100A/230Vac (cold start)	
•	Frequency range	50-60Hz	
•	Leakage current (max.)	0.75mA	
•	Efficiency (typ.)	87%	83%
Pro	otection Function		
•	Over voltage (max.)	140% of rated voltage, hiccup mode protection until fault is removed	
•	Over current (max.)	130% of rated current, hiccup mode protection until fault is removed	
•	Short circuit at O/P	No damage, hiccup mode protection until fault is removed	
•	Over temperature	No damage, hiccup mode protection until temperature is back to norma	
Otł	ners		
•	Fan ON/OFF (typ.)	Fan ON @ output current >2A; Fan OFF @ output current <1A	
•	MTBF (min.) (note#3)	700K hours @ rated load	
En	vironment		
•	Temperature (note#5)	(operating) -20~70°⊂ /(storage) -40~85°⊂	
•	Humidity	(operating) 10~90% RH non-condensing / (storage) 5~95% RH	
•	Altitude (max.) (note#4)	5000 meters	
Me	echanical		
•	Dimension	212(L)*115(W)*40mm(H)	
•	Vibration	10~500 Hz, 6G 15min./1cycle, 90min per axis in all axes (X, Y, Z)	
•	Weight (typ.)	860g	

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Safety				
Standard	IEC/EN 60950-1, K60950-1, IEC/EN 62368-1, CNS14336-1			
Withstand voltage	Input-Output: 4242VDC / Input-FG: 2150VDC / Output-FG: 700VDC			
Isolation resistance (min.)	Input-Output: 100Mohm @ 500VDC, 25℃, 70%RH			
EMC				
• EN55032	Conducted EMI: class A / Radiated EMI: class A			
• FCC	Conducted EMI: class A / Radiated EMI: class A			
• EN61000-3-2	Harmonic distortion: Not applicable			
• EN61000-4-2	ESD: ±8KV contact discharge / ±15KV contact discharge			
• EN61000-4-3	Radiated RF immunity: 3V/m			
• EN61000-4-4	000-4-4 EFT: ±1KV (AC port)			
• EN61000-4-5	Surge: ±2KV DM / ±4KV CM			
• EN61000-4-6	Conducted RF immunity: 3V/m			
• EN61000-4-8	Magnetic field immunity: 1A/m			
• EN61000-4-11	Voltage dip immunity			

Note

#1: All specification defined at 230Vac/50Hz, rated power and 25° C ambient temperature if no mentioned specially.

#2: Ripple noise is measured by a 30cm length, twisted wires with 0.47uF MLCC+22uF low ESR capacitor.

#3: Calculated by Telcordia SR332 at 25 $^\circ\!\!\mathbb{C}$ ambient temperature.

#4: When operating altitude is higher than 2000m, the environment temperature derating factor is 0.5°C/100m.

#5: De-rating curve of AC input voltage and ambient temperature:

