

Figure 1.The Physical Photo of ATI100-24VLP



Figure 2. The Physical photo of ATI100-24VLP

DESCRIPTION

The LED Power Supply ATI100-24VLP (UL) is exclusively designed for the LED (Light Emitting Diode) lamps. It is a switch mode power supply with 24VDC constant output voltage.

An electronic protection circuit switches off the power supply in case of short circuit or overload in the secondary circuit, overheat as well as open circuit. After the removing of the faults, the LED power supply is resetting automatically for operation again.

APPLICATIONS

This LED power supply is used for providing power to LEDs with constant voltage.

INSTALLATION INSTRUCTIONS

ATI100-24VLP conforms to the UL8750 for safety regulation and FCCPART 15 for electromagnetic compatibility.

- This LED power supply can only be used with the LED lamps
- This LED power supply can be used for outdoor and immerse in the water can be less than 0.15m. Protect the LED power supply against excessive heat (permissible operating temperature range is -20°C to +45°C).
- The loads indicated on the power supply should not exceed or below the default value, 0-100W.
- Connect the LED lamps to the LED power supply with correct polarity according to the schematic drawing.
- The maximum length of the output cable should be less than 2m in order to meet EMC standard.
- If the LED power supply is used for purposes other than originally intended or it is connected in a wrong way, no liability can be guaranteed.

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STABLE VOLTAGE

This power supply has a stable output voltage. The experiment shows that the output voltage remains stable under different ambient temperatures, 20°C, -20°C, and 45°C, as shown in Figure 3 below.

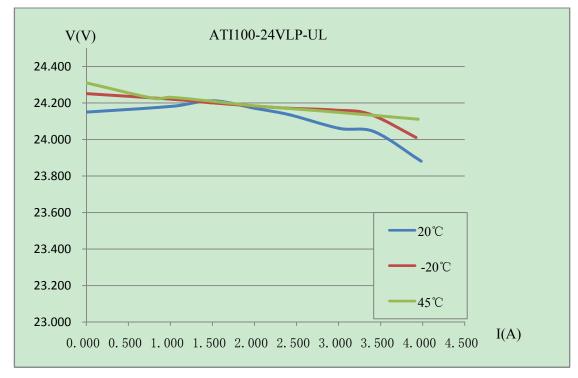


Figure 3. The curve for the output current under different temperatures

SPECIFICATIONS

Table 1. Characteristics

Parameters	Value		
Input Voltage	100-240VAC+/-10%50/60Hz		
Input Current	<1.5A		
Output Voltage	24VDC+/- 1.0V		
Rated Power	100W		
Protection Degree	IP67		
Ambient Temperature (Ta)	Max. 45°C		
Case Temperature (Tc)	Max. 85 °C		
Primary Cable	3C 18AWG		
Secondary Cable	2C 16AWG		
Dimension	190×68×35mm		



Table 2. Spec.

Items	Conditions	Request	Note
Input	Conditions	request	11000
Rated input voltage	Ta	AC120V	
Input voltage scope	Ta	AC90-132V	
Input voltage			
frequency	Та	60Hz	
Input current	25°C, input rated voltage, output max rated load	<1.5A	
Input power	25°C, input rated voltage, output max rated load	<115W	
Efficiency	25°C, input rated voltage, output max rated load	≥88%	
Power consumption	25°C imput metad vialtage autaut viith out load	<0.5W	A xxama a a
without load	25℃, input rated voltage, output without load	<0.5W	Average
Power factor	25℃, input rated voltage, output max rated load	≥0.9	
Input surge current	25℃, input rated voltage, output max rated load	<50A	Pk-Pk
Output			
Startup time	25℃, input rated voltage, output max rated load	<1000mS	
Constant output	Ta, input rated voltage, output rated load		
current and precision	ra, input rated voltage, output rated road		
Rated			
outputpower/led	Ta, input rated voltage	-	
lights quantity			
Output current ripple	25°C, input rated voltage, output max rated load	-	Ip-p
wave	25°C, input rated voltage, output for 2 lights		
Overshoot	connection	-	
Rated output voltage			
and precision	Ta, input rated voltage, output rated load	24V±5%	
Output voltage ripple		400 **	
wave	25℃, input rated voltage, output max rated load	<400mV	Vp-p
Output open circuit	T : 4 4 1 14 4 4 11 1	2487+50/	
voltage	Ta, input rated voltage, output without load	24V±5%	
Dimmable Mode			
Dimmable Scope		-	
Protection			
Open circuit	Ta, input rated voltage, output without load	VAC	
protection	ra, mpat ratea voltage, output without load	yes	
Overload protection	Ta, input 0.94-1.06 times rated voltage, output	yes	
	1.3 times rated load	yes	
Short circuit	Ta, input 0.94-1.06 times rated voltage, output	yes	
protection	short circuit for 1 hour	-	
Over heat protection	Detected by IC itself	yes	
Automatically re-start	Ta, overload, short circuit, over heat protection	yes	
	retreated		
Temperature and other	ers		

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Working temperature		-10℃~45℃			
Relative humidity		10%~95%			
Max covertemperature		10/0/55/0			
Life span	Under max Ta, input rated voltage and output max rated load	30000hrs			
Working noise	25°C, input rated voltage, output rated load, background noise<30dB, pickup is 10cm far away from product	-			
Mechanical structure,	mounting and connection way				
Cover material and sizes	Metal,185mm×68mm×35mm				
Mounting mode	External				
Anti-electric shock	Class I				
Protection grade	IP67				
Input connection way	3C 18AWG				
Output connection way	2C 14AWG				
Output wires length					
standard requestUL					
Safety	UL				
Harmonic	25°C, input rated voltage, MAX rated load				
EMCinterference	25℃, input rated voltage, load is typical lights	FCC PART15			
EMCANTI interference	25℃, input rated voltage, load is lights				
Mark					
Made by	Version				
Audit					
Approved					

ORDERING INFORMATION

Table 2.Unit Price

Quantity	1-9	10 – 24	25 - 99	100 – 499	500 – 999	≥1000
ATI100-24VLP	\$65.9	\$61.9	\$58.9	\$54.9	\$50.9	\$47.9

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LED Power Supply



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