

# ATI18-700ILT



Figure 1. The Physical Photo of ATI18-700ILT



Figure 2. The Physical Photo of ATI18-700ILT

### DESCRIPTION

The LED Power Supply ATI18-700ILT is exclusively designed for the LED (Light Emitting Diode) lamps used indoors. It is a switch mode power supply with 700mA constant output current.

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 current.

### **INSTALLATION INSTRUCTIONS**

ATI18-700ILT conforms to the directive 2004/108/EC for electromagnetic compatibility andthe low voltage directive 2006/95/EC.

- This LED power supply can only be used with the LED lamps
- This LED power supply is only suitable for indoor use. Protect the LED power supply against excessive heat (permissible operating temperature range is -10°C to +45°C).
- The loads indicated on the power supply should not exceed or below the default value, 15-18W.
- 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 power supply is used for purposes other than originally intended or it is connected in a wrong way, no liability can be guaranteed.



**LED Power Supply** 

ATI18-700ILT

## STABLE VOLTAGE

This power supply has a stable output current. The experiment shows that the output current remains stable under different ambient temperatures,  $20^{\circ}$ C,  $-20^{\circ}$ C, and  $40^{\circ}$ C, as shown in Figure 3 below.

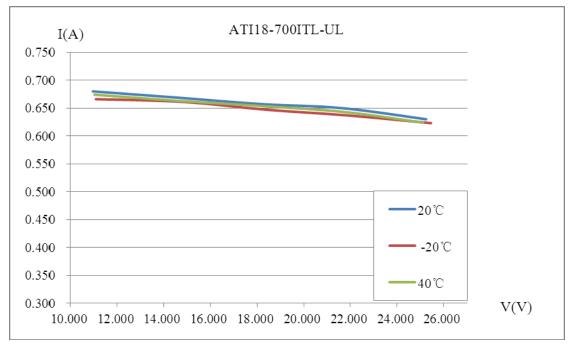


Figure 3. The curve for the output current under different temperatures

### **SPECIFICATIONS**

Table 1. Characteristics

Parameters	Value		
Input Voltage	220Vac50Hz		
Input Current	< 0.2A		
Output Current	700mA +/- 0.5%		
Rated Power	18W		
Protection Degree	IP20		
Ambient Temperature (Ta)	Max. 45°C		
Case Temperature (Tc)	Max. 80 °C		
Primary Cable	H03VVH2-F 2×0.75mm <sup>2</sup>		
Secondary Cable	H03VVH2-F 2×0.75mm <sup>2</sup>		
Dimension	138×45×23mm		



ATI18-700ILT

Table 2. Spec.

Parameters Conditions		Request	Note
Input		<b>.</b>	
Rated input voltage	Ta below	120V	
Input voltage scope	Ta below	108V-132V	
Input voltage frequency	Ta below	60Hz	
Input current	25℃, input rated voltage, output max rated load	0.3A MAX	
Input power	25℃, input rated voltage, output max rated load	22W MAX	
Efficiency	25℃, input rated voltage, output max rated load	75% MIN	
Powerconsumption without load	25℃, input rated voltage, output without load	0.3W MAX	Average
Power factor	25℃, input rated voltage, output max rated load	0.85MIN	Related voltage
Input surge current	25℃, input rated voltage, output max rated load	10A MAX	PK-PK
Output			
Startup time	25℃, input rated voltage, output max rated load	<1sMAX	
Constant output current and precision	Ta below, input rated voltage, output max rated load	700mA±5%	
Rated output power/led lights quantity	Ta below, input rated voltage	7pcs LED (26V)	VF=3.6V
Output current wave	25℃, input rated voltage, output max rated load	-	
Overshoot	25°C, input rated voltage, output for 2 lights connection	-	
Rated output voltage and precision	Ta below, input rated voltage, output rated load	-	
Output voltage wave	25℃, input rated voltage, output max rated load	-	
Output open circuit voltage	Ta below, input rated voltage	29V MAX	
Dimmable mode		Traic dimmable	
dimmable scope		12%~90%	
Protection			•
Open circuit protection	Ta below, input rated voltage, output without load	yes	
Overload protection	Ta below, input 0.94-1.06 times rated voltage, output 1.1 times rated load	-	
Short circuit protection	Ta below, input 0.94-1.06 times rated	yes	

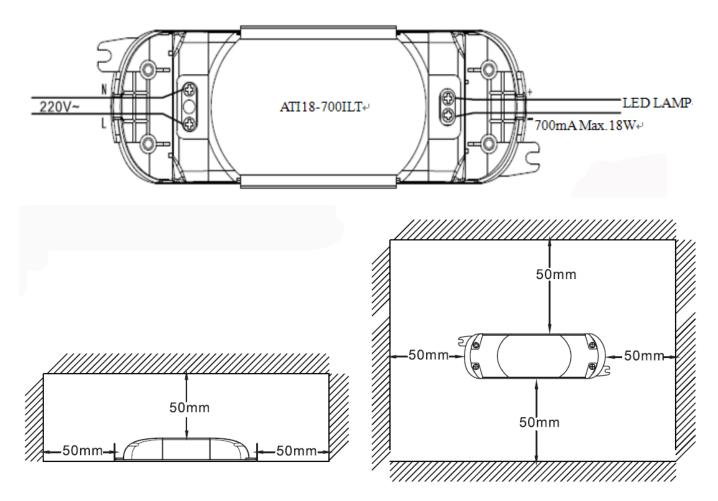


voltage, output short circuit for 1 hour				
	_			
	-			
Ta below, short circuit, over heat protection				
retreated	yes			
<u>}</u>	·			
	-10℃~40℃			
	<u>۶5°C</u>			
	83 C			
under max Ta, input rated voltage and	20000hr			
output max rated load	30000nr			
ounting and connection way				
Type II				
IP20				
Connectors				
Connectors				
UL				
25°C, input rated voltage, MAX rated load	FCC PART15			
$25^{\circ}$ C, input rated voltage, load is lights				
	retreated under max Ta, input rated voltage and output max rated load ounting and connection way Type II IP20 Connectors Connectors	Image: Construct of the second sec		

# ATI18-700IL1

# DIMENSIONS

The mounting location dimension of ATI18-700ILT are shown in Figure 4 below.



### Figure4.Mounting Location Dimension

### **ORDERING INFORMATION**

Table 3.Unit Price

Quantity	1 – 9	10 - 24	25 – <b>99</b>	100 - 499	500 - 999	≥1000
ATI18-700ILT	\$17.9	\$16.5	\$16.0	\$15.0	\$13.9	\$12.9

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**ATI18-700ILT** 

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