



FU-CLI1000-12.6V • Li-Ion battery charger

FU-CLI1000-12.6V • Li-Ion battery charger

1. Scope

The purpose of the document is to specify the functional requirements of a 12.6W switching power supply.

Input characteristics

Input Voltage	Nominal Voltage	100-240Vac
	Variation Range	90-264Vac
Input Frequency	Nominal Frequency	50-60Hz
	Variation Frequency	47-63Hz
Input Current	0.5Arms max At any input voltage and rated, DC output rated load.	
Inrush Current	30Amps Max. Cold start at 240Vac input, with rated load and 25°C ambient.	

2. Output characteristics

Power output	Voltage	+12.6Vdc
	Max. Load	80-180mA
	Min. Load	0.8A-1.2A
	Output Power	12.6W
Combined Load/ Line Regulation	Voltage	+12.6Vdc
	Min. Voltage	12.4V
	Max. Voltage	12.8V
	Line Regulation	±3%

3. Ripple And Noise

The ripple and noise are as follows when measure with Max. Bandwidth of 20MHz and Parallel 10uF/0.1uF, crossed connected at testing point.

Turn On Delay Time	2 second Max. At 115Vac input and output Max. Load.
Rise Time	40mS Max. At 115Vac input and output Max. Load.
Hold Up Time	5mS Min. At 115Vac input and output Max. Load.
Efficiency	70%Min. At 100Vac input and output Max. Load.
	72%Min. At 240Vac input and output Max. Load.
Overshoot	15%Max. When power supply at turn on or turn off.

FU-CLI1000-12.6V • Li-Ion battery charger

4. Protection requirement

Short Circuit Protection:	The power supply will be auto recovered when short circuit faults remove.
Over current Protection	The power supply will be auto recovered when over current faults remove.
Over Voltage Protection	The power supply will not be auto recovered when faults remove.

5. Environmental requirement

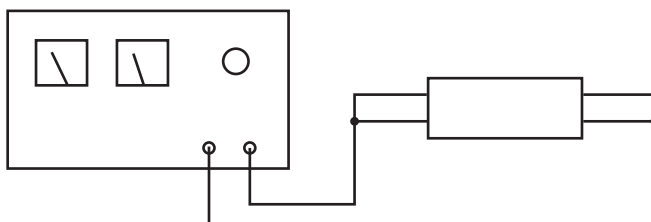
Operating Temperature	0°C to 40°C, Full load Normal operation.	
Storage Temperature	-20°C to 85°C , (With package).	
Relative Humidity	5%(0°C)~90%(40°C)RH,72Hrs,Full load Normal operating.	
Vibration	Operating:	IEC 721-3-3 3M3 5~9Hz, A=1.5mm (9~200Hz, Acceleration 5m/s ²)
	Transportation	IEC 721-3-2 2M2 5-9Hz A=3.5mm 9~200Hz, Acceleration=5m/S ² 200~500HZ, Acceleration=15m/S ²
	Axes, 10 cycles per axis	No permanent damage may occur during testing. The product has to restore its original situation after power off/on
	Dropping Packed	Corner, 3 edges, and 6 surfaces Height: 76cm

FU-CLI1000-12.6V • Li-Ion battery charger

6.Safety and EMC requirement

Dielectric strength

Primary to secondary: 1500VAC/5mA/60s.



7.Mechanical requirement

Enclosure:

The power supply size L: L78*W30*H42mm



DC cable: AWM 2464 24AWG*2C, VW-1, 80°C, FT1, 300V, with word on the cord, Length:1.0M ,DC plug 5.5X2.1X10mm, SR 4*7 in+/out-.

Whitebox: 97*82*30 MM