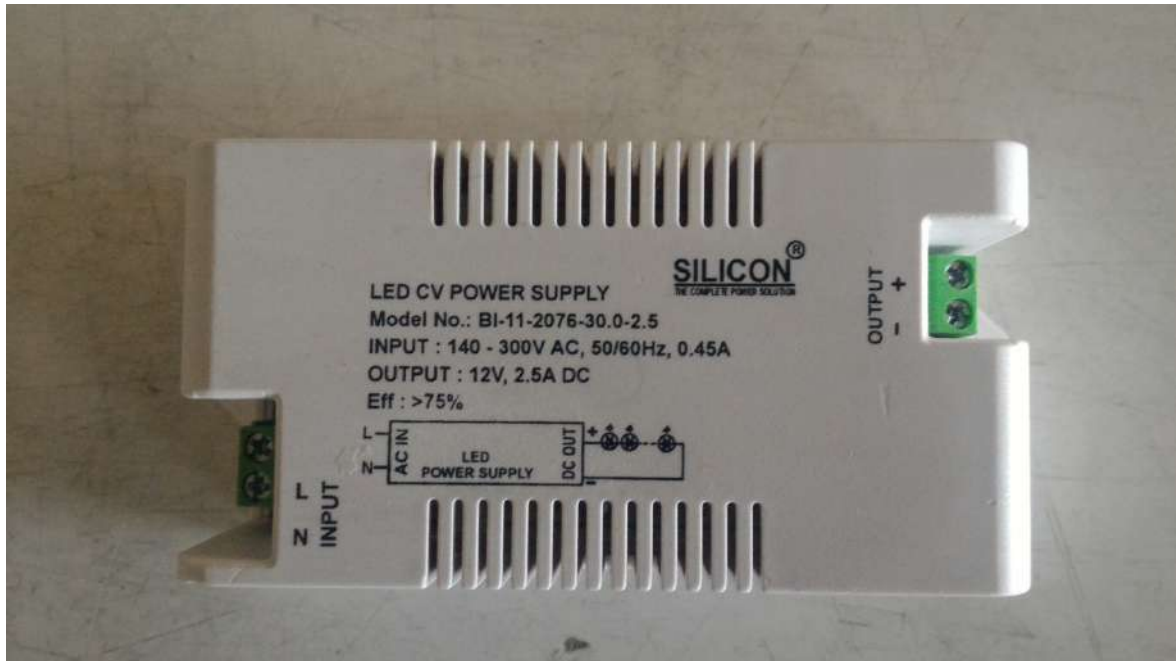


Product	:	Dc supplied Electronic control gear for LED Module (40W rating)
Product Output rating	:	DC 12V @ 2.5A
Model No	:	BI-11-2076-30.0-2.5



Scope:

This Specification defines the general design and performance requirement for Metal encased LED Driver intended for use with LED Street Light. These Drivers are operating with wide input range. These Drivers will be manufactured as per Customer requirement.

Features:

- Wide Input operating Voltage
- High Efficiency - >75%
- AC input High Voltage Cut-Off
- Short circuit & Over Load Protection - Auto Recovery/ Latch mode
- Thermal Shutdown Protection & Auto Recovery
- **Surge Protection - as per IEC 61000-4-5 : 4 kV (L-N)**

r	Parameter	Requirements
A	INPUT REQUIREMENTS	
1	Nominal Input Voltage	230V AC
2	Operating Voltage Range	140V to 300V AC
3	Phase	Single Phase
4	Frequency Range	50 Hz ,+/- 2Hz
5	Input Current	< 0.5 A
6	In-rush Current	< 30 Amp @ 300V AC
7	Input Protection	Fusible Resistor of appropriate rating to be used for prevention of fire hazard.
8	Efficiency	≥ 75% at 230V AC & Full Load
9	Input High Voltage Cut-off	> 300V AC Unit will shutdown and auto recovery with 5-10V hysteresis
B	OUTPUT REQUIREMENTS	
1	Output Voltage	$V_o = 12V \pm 5\%$
2	Output Current	$I_o = 2.5 A$
3	CV Regulation – Line & Load	< ±5%
4	Short Circuit Protection	Hiccup/ Latch Mode

r	Parameter	Requirements
C	SAFETY REQUIREMENTS	
1	Isolation (Hi-Pot Test)	L, N to DC Output : Should withstand 1.5KV for 1 Minute
2	Insulation Resistance	>10MΩ at 500V DC
D	ENVIRONMENTAL REQUIREMENTS	
1	Operating Temperature	0°-50°C
2	Operating Relative Humidity	0-95% RH
3	Storage Temperature	-20 to 70°
E	EMC REQUIREMENTS	
1	Surge Immunity	As per IEC-61000-4-5; DM-4kV
F	MECHANICAL	
1	Enclosure	ABS Plastic Enclosure, FR Grade
2	Connectors	AC Input : Screw Terminal, 2pin, 5.0mm Pitch Output : Screw Terminal, 2pin, 5.0mm Pitch
3	Dimensions	L 115 mm x W 52mm x H 36 mm
4	Marking	All Markings/ labels to be given on enclosure in non-erasable form