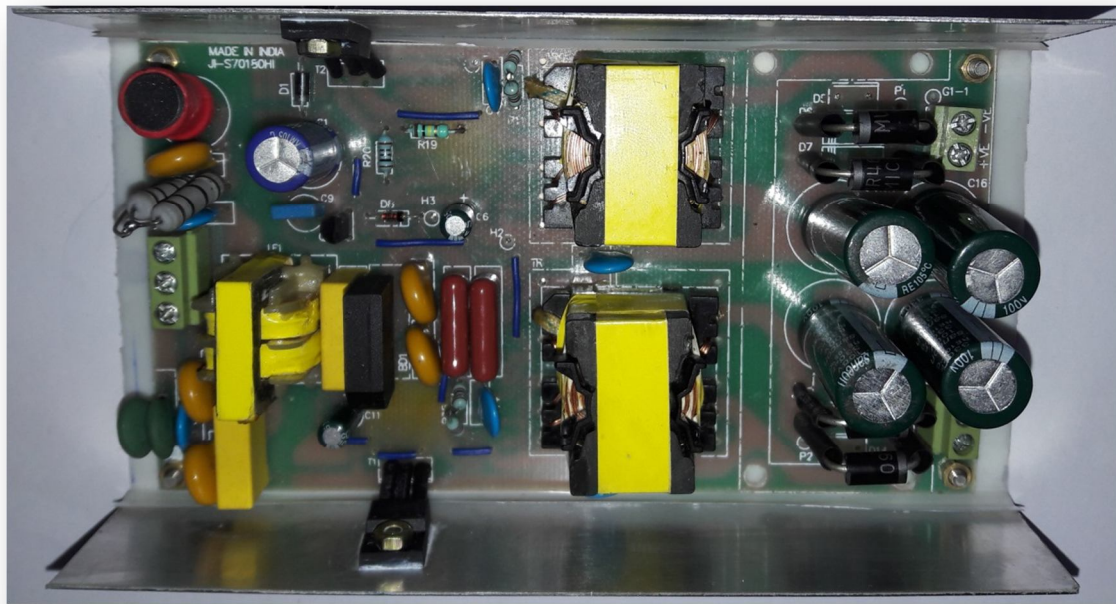




JHA INSTRUMENT

70-180 W ISOLATED HPF LED DRIVER



Features:

- Wide input voltage range 120VAC to AC300VAC
- Withstand voltage 450VAC
- Highly accurate constant LED current (+/-3%)
- High Power Factor (PF)
- THD Less than 8%
- Cycle-by-Cycle Current Limit
- NO EMI/RFI Noise
- Isolated
- Excellent Line and Load Regulation
- High Efficiency around 90%
- Auto Recovery
- Three wire system for better grounding and shock proofing
- Excellent heat management
- Dusk to Dawn with light sensing (optional)

High Precision PSR APFC Isolated LED Driver

JI-S70180HI

Protections:

- Short Circuit
- Over Temperature
- Under-voltage
- Surge > 4.7KVA (>10KVA optional)
- Over load
- Over-voltage auto-cut at 270VAC
- Open Circuit
- Transformer Saturation

Rating:

• Input Voltage	120-280VAC	• Output Voltage	60VDC
• Input Power	100W	• Output Power	90W
• Operating Temperature	0-45 0C	• Output Current	1500mA

Application:

Street light
Flood light
Ceiling light
Constant Current Power Supply

Test Report:

Part No: - JI-S70180HI1500060-WH

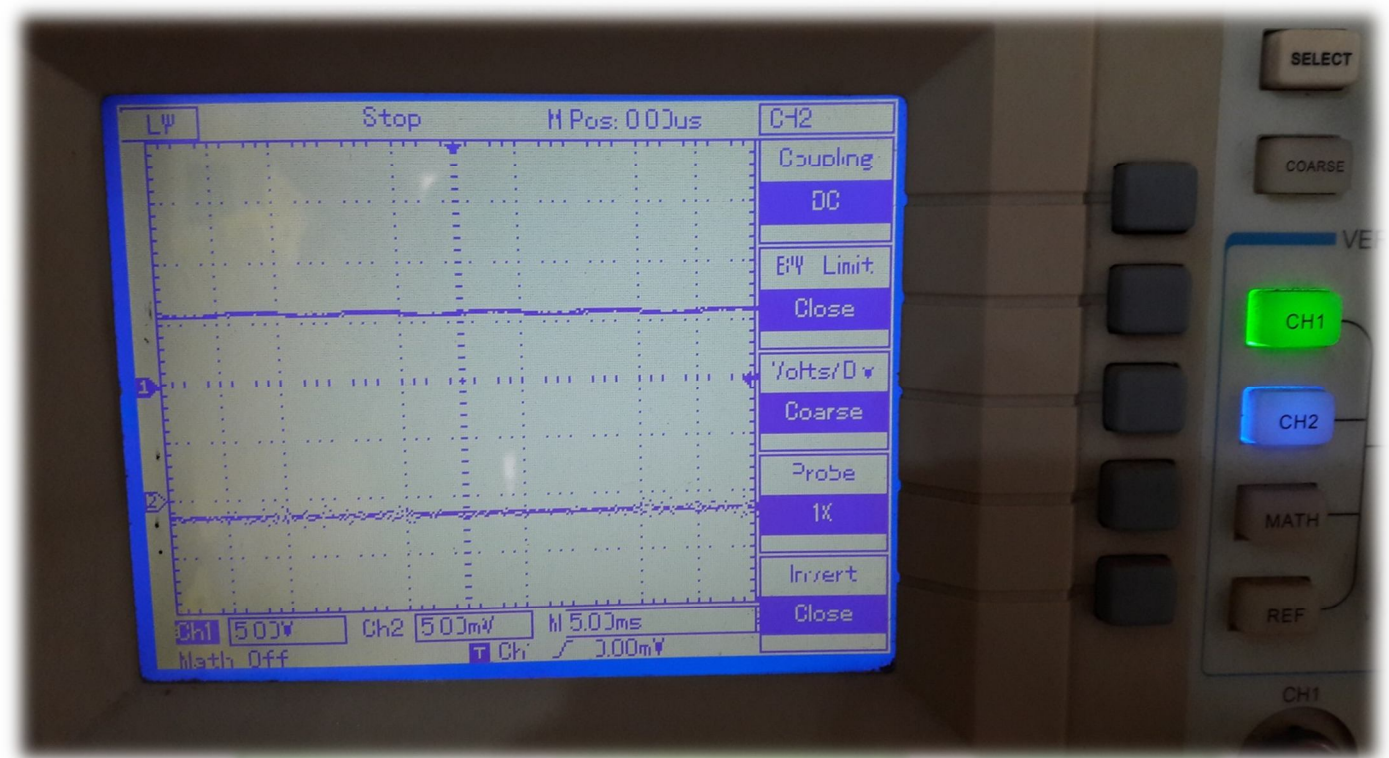
SL No	AC Input (V)	AC Input (I)	Input (S)	Input (P)	PF	THD %	Output (V)	Output (mA)	Output (W)	EFF %
1	120	1.072	129.1	128.4	0.9967	5	61.6	1710	105.33	82.03
2	140	0.821	118.6	118.4	0.9945	5	61.6	1660	102.25	86.36
3	160	0.702	113.1	112.8	0.9936	6	61.5	1620	99.63	88.95
4	180	0.594	108.6	107.8	0.9926	6	60.5	1570	94.98	88.60
5	200	0.530	105.5	104.6	0.9914	6	60.5	1540	93.17	89.07
6	220	0.466	103.4	102.2	0.9903	6	60.5	1510	91.35	89.38
7	230	0.432	101.3	100.0	0.9901	6	60.5	1510	91.35	91.35
8	240	0.431	103.4	101.8	0.9835	7	60.5	1510	91.35	90.44
9	260	0.404	104.2	102.2	0.9817	8	60.5	1510	91.35	89.55
10	280	0.382	107.2	104.8	0.9775	12	60.5	1510	91.35	87.83
11	300	0.019	5.7	0.4	0.0357	25	00.0	000	00.00	00.00

** Tested on 3030 1W 6V LED 7 LED in series. ** Auto Cut at 295VAC

** Open circuit output voltage 60V DC

** Efficiency and PF can be increased for narrow input range 160VAC-290VAC

Output Waveform:



Recommend Load Condition:

- With 3030 LED: 1W, 6V, 150mA
 - Total No of LED – 100
 - No of LED in series – 10
 - No of LED in Parallel – 10
- With 5630/5730 LED: 0.5W, 3-3.4V, 150mA
 - Total No of LED – 200
 - No of LED in series – 20
 - No of LED in Parallel – 10
- With 2835 LED: 0.5W, 3-3.4V, 150mA
 - Total No of LED – 200
 - No of LED in series – 20
 - No of LED in Parallel – 10
- With 2835 LED: 1W, 9V, 100mA
 - Total No of LED – 102
 - No of LED in series – 6
 - No of LED in Parallel – 17

Dimension:

Length – 121mm



Height – 38mm

Width – 82mm

Ordering Information:

Part No: JI-S70180HIAAAAVVV-WH/NH

Where

AAAA – Current in milliamperere
VVV - Voltage in volt
WH - With Heat sink
NH - Without Heat sink