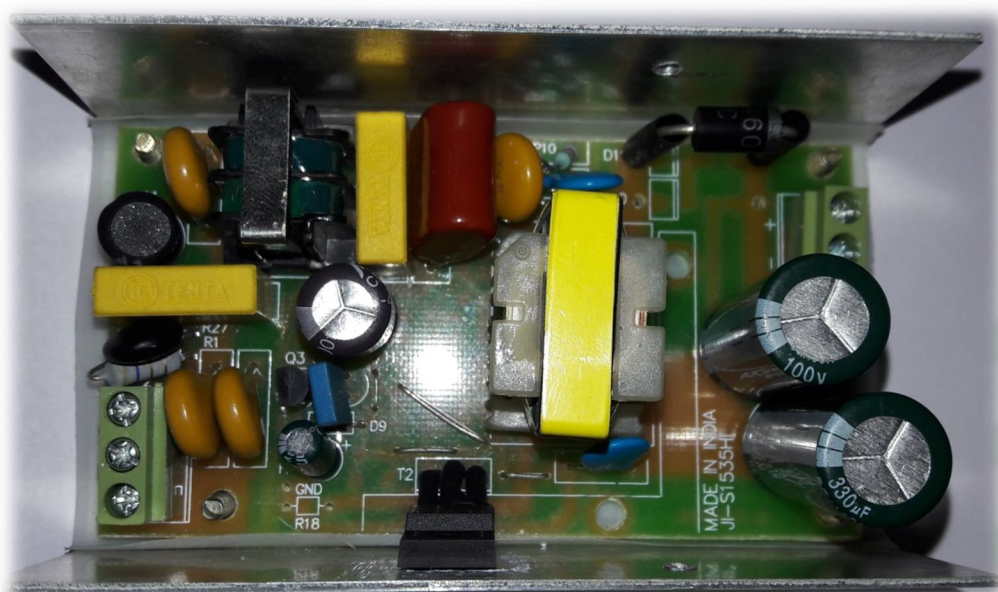




# JHA INSTRUMENT

## 15-35W ISOLATED HPF LED DRIVER



### Features:

- Wide input voltage range 100VAC to AC300VAC
- Withstand voltage 450VAC
- Highly accurate constant LED current (+/-3%)
- High Power Factor (PF)
- THD Less than 5%
- Cycle-by-Cycle Current Limit
- NO EMI/RFI Noise
- Isolated
- Excellent Line and Load Regulation
- High Efficiency
- Auto Recovery
- Three wire system for better grounding and shock proof
- Excellent heat management
- Dusk to Dawn with light sensing (optional )

### Protections:

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

## Rating:

• Input Voltage	120-280VAC	• Output Voltage	42 VDC
• Input Power	35W	• Output Power	31.5 W
• Operating Temperature	0-45 0C	• Output Current	760 mA

## Application:

Street light  
Flood light  
Ceiling light  
Constant Current Power Supply

## Test Report:

Part No:- JI-S1535HI0760041-WH

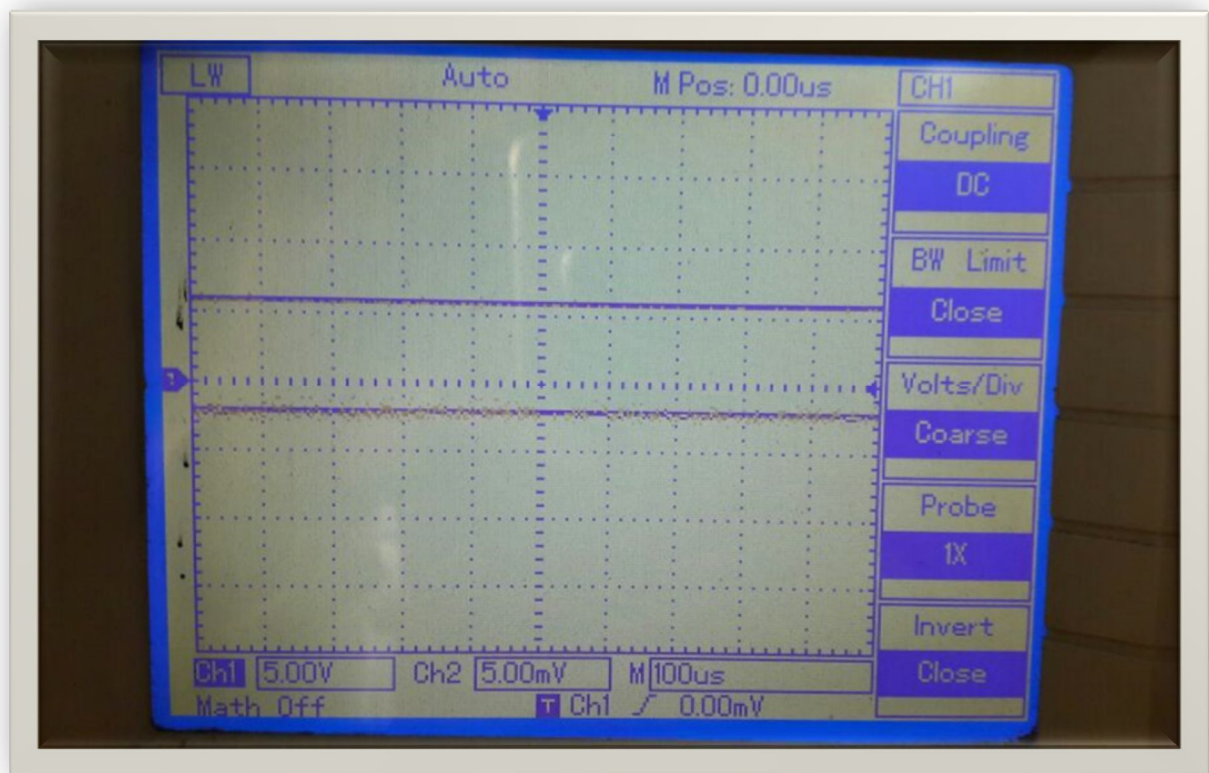
SL No	AC Input (V)	AC Input (I)	Input (S)	Input (P)	PF	THD %	Output (V)	Output (mA)	Output (W)	EFF %
1	100	0.348	36.4	35.2	1.000	5	41.4	720	29.80	84.68
2	120	0.303	36.7	36.4	0.9948	6	41.5	740	30.71	84.36
3	140	0.267	37.2	37.0	0.9919	6	41.6	760	31.61	85.43
4	160	0.235	37.2	36.8	0.9892	7	41.6	770	32.03	87.03
5	180	0.205	36.6	36.2	0.9836	7	41.5	760	31.54	87.12
6	200	0.180	36.2	35.6	0.9834	7	41.5	760	31.54	88.59
7	220	0.165	36.2	35.2	0.9752	9	41.5	760	31.54	89.60
8	230	0.157	36.1	35.2	0.9696	11	41.4	760	31.46	89.37
9	240	0.151	36.3	35.0	0.9641	11	41.4	760	31.46	89.88
10	260	0.141	36.8	35.2	0.9580	14	41.4	760	31.46	89.37
11	280	0.133	36.9	35.0	0.9483	14	41.4	760	31.46	89.88
12	300	0.019	5.6	0.2	0.0357	25	00.0	000	00.00	00.00

\*\* Tested on 3030 1W 6V LED 7 LED in series. \*\* Auto Cut at 290VAC

\*\* 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 – 35

No of LED in series – 7

No of LED in Parallel - 5

With 5630/5730 LED: 0.5W, 3-3.4V, 150mA

Total No of LED – 70

No of LED in series – 14

No of LED in Parallel - 5

With 2835 LED: 0.5W, 3-3.4V, 150mA

Total No of LED – 70

No of LED in series – 14

No of LED in Parallel - 5

With 2835 LED: 1W, 9V, 100mA

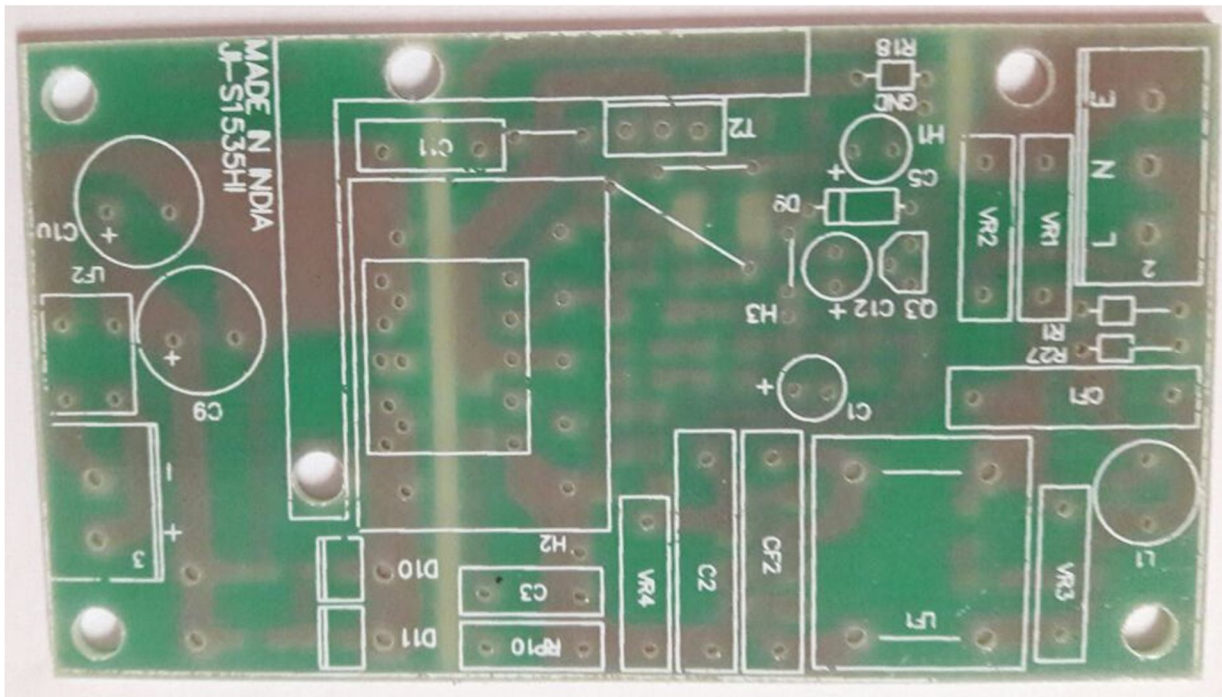
Total No of LED – 35

No of LED in series – 5

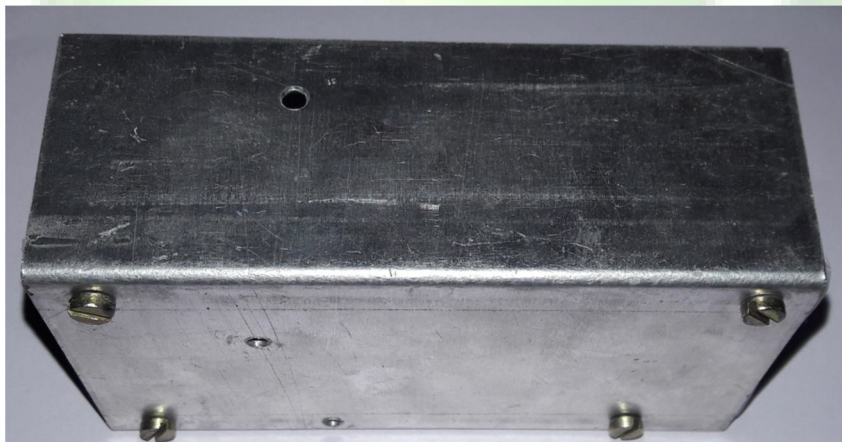
No of LED in Parallel - 7



Dimension:



Length – 94mm



Hight – 36mm

Width – 54mm

### Ordering Information:

Part No: JI-S1535HIAAAV-VV-WH/NH

Where

AAAA – Current in mill ampere

VVV – Voltage in volt

WH – With Heat sink

NH – Without Heat sink

Contact Us: [www.jhainstrument.in](http://www.jhainstrument.in), [info@jhainstrument.in](mailto:info@jhainstrument.in), [piyush@jhainstrument.in](mailto:piyush@jhainstrument.in), Ph: 8981104676  
Our representative available at: Kolkata, Delhi, Ahmedabad, Pune, Aizawl, Rajasthan, Patna