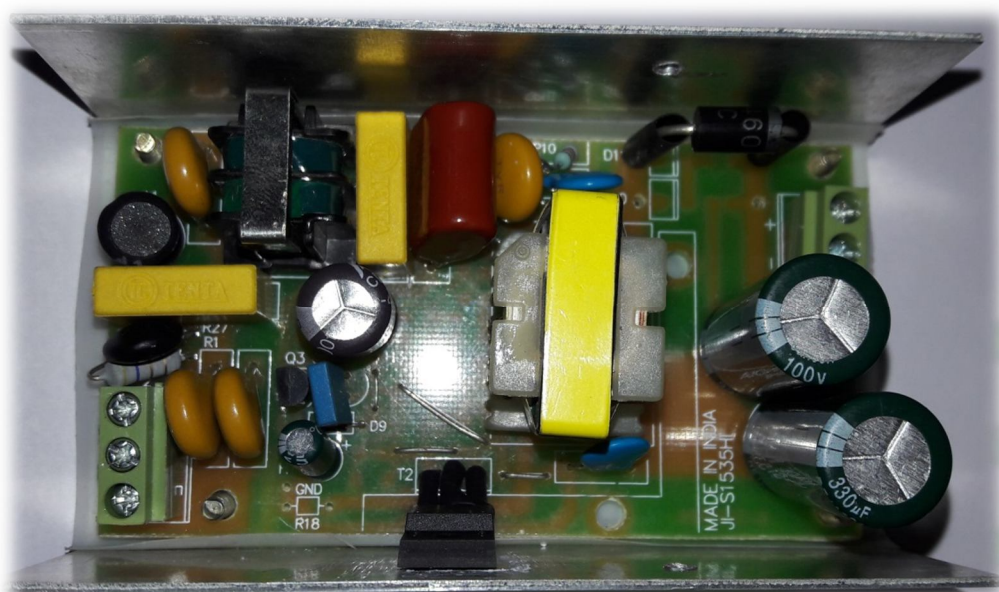




JHA INSTRUMENT

36W 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	36 VDC
• Input Power	36W	• Output Power	31.5 W
• Operating Temperature	0-45 0C	• Output Current	850 mA

Application:

Street light
Flood light
Ceiling light
Constant Current Power Supply

Test Report:

PART NO: JI-S1535HI0850039-WH

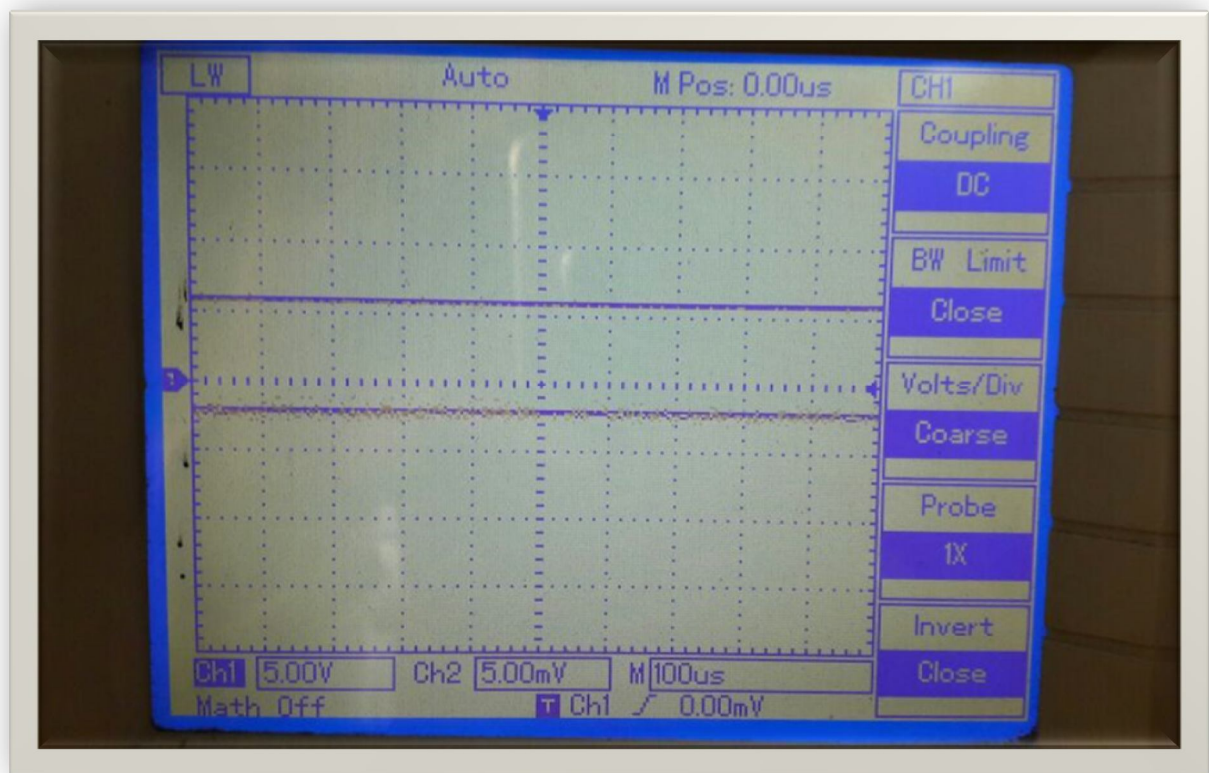
SL No	AC Input (V)	AC Input (I)	Input (S)	Input (P)	PF	THD %	Output (V)	Output (mA)	Output (W)	EFF %
1	100	0.340	33.8	33.8	1.000	5	36.5	760	27.74	82.07
2	120	0.291	35.7	35.6	1.000	6	36.8	810	29.80	83.73
3	140	0.266	36.4	36.2	0.9945	6	36.9	830	30.62	84.60
4	160	0.230	36.7	36.4	0.9918	7	37.0	840	31.08	85.38
5	180	0.203	36.8	36.2	0.9863	7	37.0	850	31.45	86.8
6	200	0.181	36.7	36.0	0.9809	7	37.0	850	31.45	86.8
7	220	0.168	36.9	36.0	0.9729	9	37.0	850	31.45	86.8
8	230	0.161	37.3	36.0	0.9696	11	37.0	850	31.45	86.8
9	240	0.157	37.2	36.0	0.9641	11	37.0	850	31.45	86.8
10	260	0.145	37.7	36.0	0.9580	14	37.0	850	31.45	86.8
11	280	0.137	38.4	36.0	0.9483	14	37.0	850	31.45	86.8
12	300	0.019	5.7	0.2	0.0357	25	00.0	000	00.00	00.00

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

** Open circuit output voltage 61.7V 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 – 36

No of LED in series – 6

No of LED in Parallel - 6

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

Total No of LED – 72

No of LED in series – 12

No of LED in Parallel - 6

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

Total No of LED – 72

No of LED in series – 12

No of LED in Parallel - 6

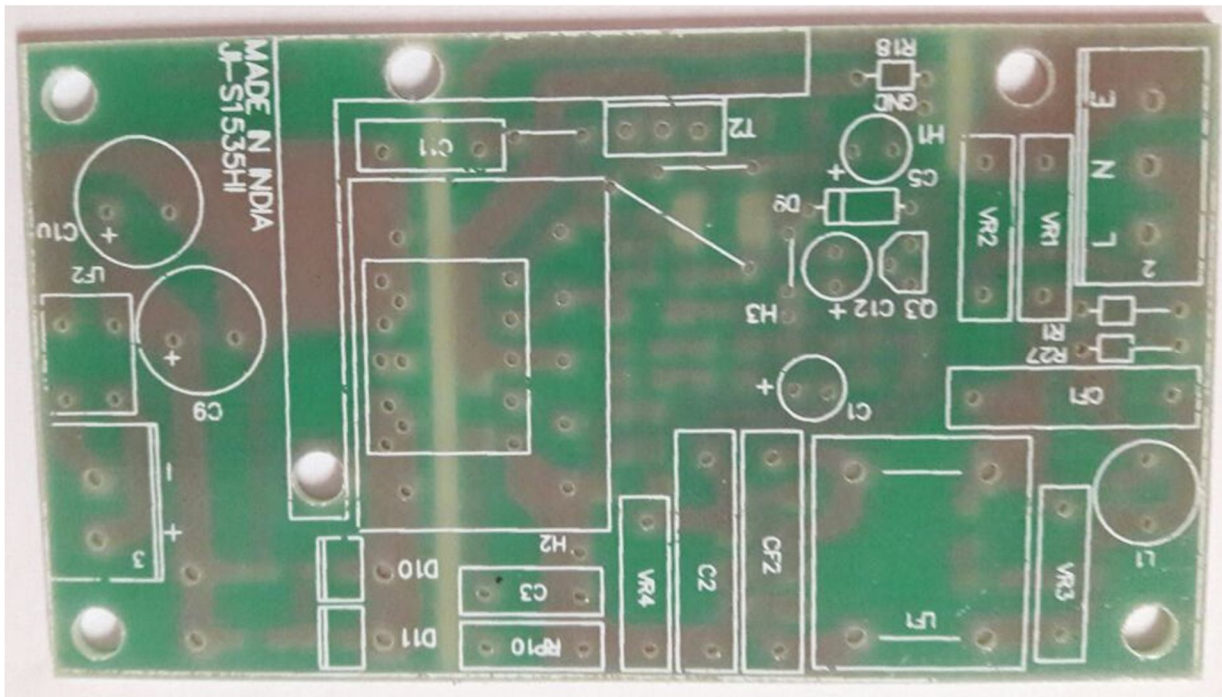
With 2835 LED: 1W, 9V, 100mA

Total No of LED – 36

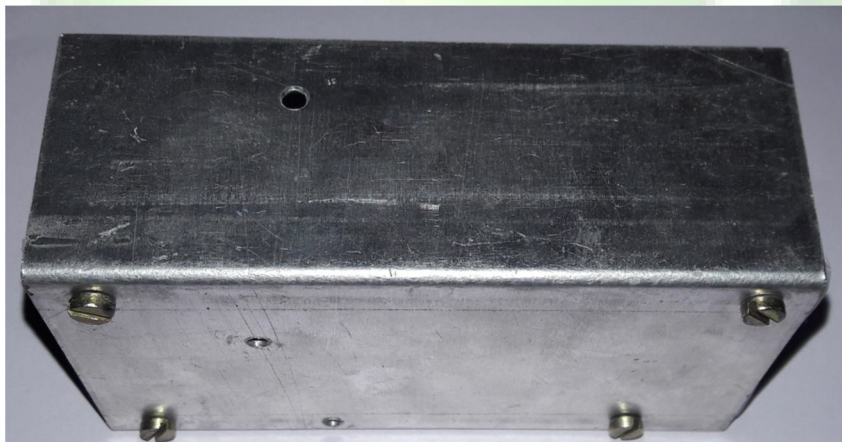
No of LED in series – 4

No of LED in Parallel - 9

Dimension:



Length – 94mm



Hight – 36mm

Width – 54mm

Ordering Information:

Part No: JI-S1535HIAAAVVV-WH/NH

Where

AAAA – Current in mill ampere

VVV – Voltage in volt

WH – With Heat sink

NH – Without Heat sink

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