



# JHA INSTRUMENT

## 24W ISOLATED HPF LED DRIVER



### Features:

- Wide input voltage range 120VAC to AC300VAC\*
- 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
- 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 > 2.2KVA (>4.7KVA optional) | • Transformer Saturation          |

## Rating:

• Input Voltage	140-280VAC	• Output Voltage	72 VDC
• Input Power	25W	• Output Power	22 W
• Operating Temperature	0-45 0C	• Output Current	300 mA

## Application:

Street light  
Flood light  
Ceiling light  
Constant Current Power Supply

## Test Report

SL No	AC Input (V)	AC Input (I)	Input (S)	Input (P)	PF	THD %	Output (V)	Output (mA)	Output (W)	EFF %
1	140	0.195	31.2	31.0	0.9967	4	73.4	340	24.95	80.5
2	160	0.195	31.2	31.0	0.9967	4	73.4	340	24.95	80.5
3	180	0.167	30.0	29.8	0.9932	5	73.2	340	24.88	83.51
4	200	0.146	29.1	28.8	0.9896	7	73.2	340	24.88	83.51
5	220	0.125	27.3	27.0	0.9890	7	72.7	320	23.26	86.16
6	230	0.112	25.9	25.4	0.9883	9	72.3	300	21.69	85.39
7	240	0.107	25.6	25.0	0.9765	11	72.2	300	21.66	86.64
8	260	0.099	25.6	24.8	0.9765	12	72.1	300	21.63	87.21
9	280	0.092	25.6	25.6	0.9687	16	72.1	300	21.63	84.49
10	300	0.019	5.6	0.2	0.0357	25	00.0	000	00.00	00.00

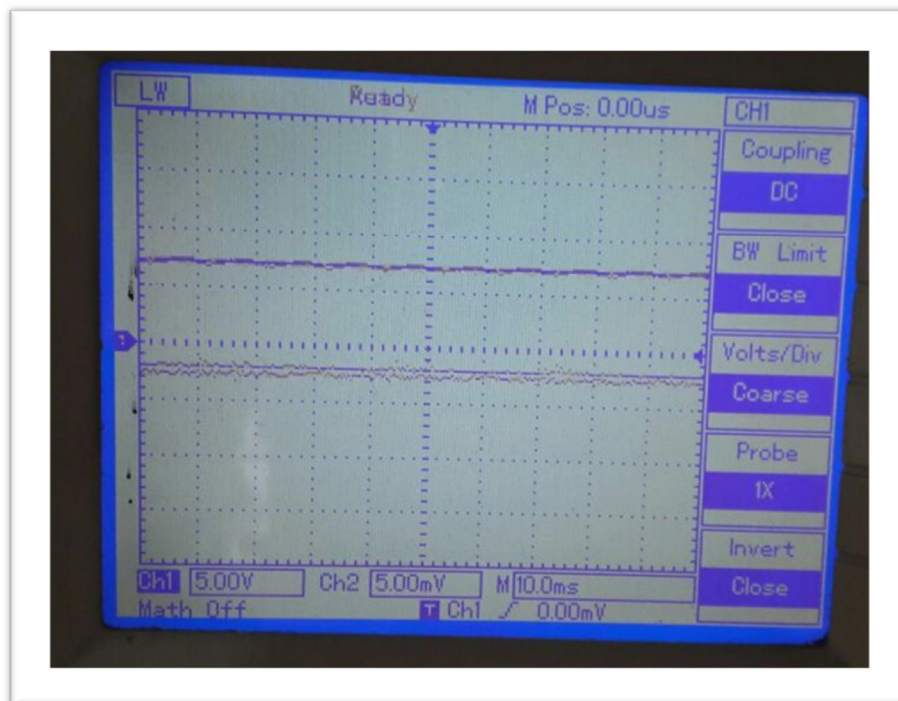
\*\* Tested on 3030 1W 6V LED 12 LED in series. \*\* Auto Cut at 290VAC

\*\* Open circuit output voltage 129V DC

\*\* Efficiency and PF can be increased when used up to 18W

\* For input range 120-300VAC use max 18W , for 24W input should be 200-260VAC

## Output Waveform:



## Recommend Load Condition:

With 3030 LED: 1W, 6V, 150mA

Total No of LED – 24

No of LED in series – 12

No of LED in Parallel - 2

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

Total No of LED – 48

No of LED in series – 24

No of LED in Parallel - 2

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

Total No of LED – 48

No of LED in series – 24

No of LED in Parallel - 2

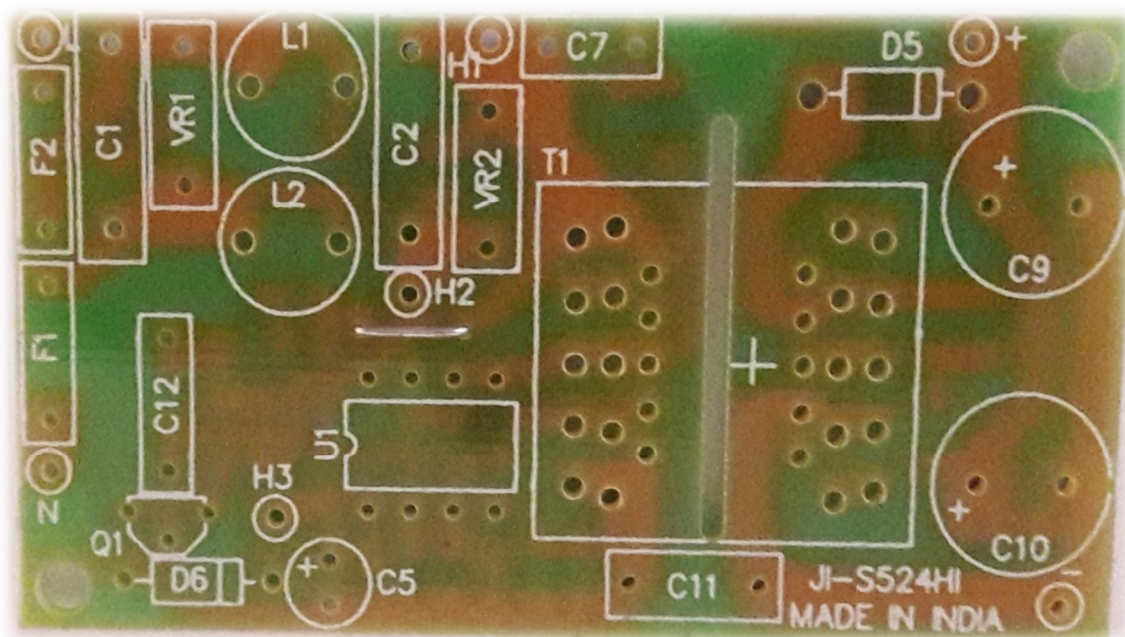
With 2835 LED: 1W, 9V, 100mA

Total No of LED – 24

No of LED in series – 8

No of LED in Parallel - 3

Dimension:



Length – 65mm , Width -36mm , Hight – 16mm

### Ordering Information:

Part No: JI-S524HIAAAVVV

Where

AAAA – Current in mill ampere  
VVV - Voltage in volt