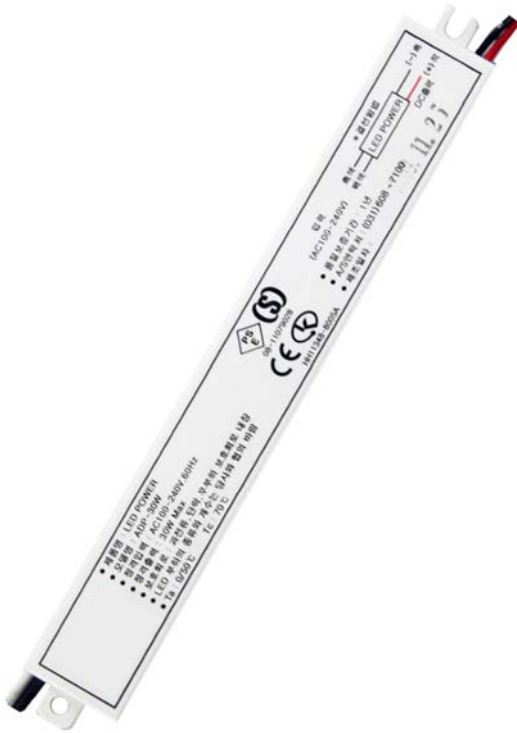


ADP-30W12 Constant Voltage Source for LED drive



Features

- AC 100-240V Wide input voltage range
- Fixed 12V output voltage (Other voltages available)
- Encapsulated, compact size
- Long life time over 30.000 Hr
- High efficiency
- Built-in Over current, Short protection circuit
- Surface mounting technology
- Low output ripple & noise
- RoHS compatible
- Certified EK-Korea, PSE-Japan, CE

Applications

- LED Lighting
- Advertising Light panel

Electrical characteristics

| Parameter | Symbol | Conditions | Specification* | | | Unit |
|----------------------|--------------------|----------------------------|----------------|------|------|----------|
| | | | Min | Typ | Max | |
| Input supply voltage | V_{IN} | | 100 | 220 | 242 | V_{AC} |
| Input current | I_{IN} | $V_{IN}=220V, P_{OUT}=30W$ | 0.28 | 0.32 | 0.37 | A |
| Power consumption | P_{IN} | $V_{IN}=220V, P_{OUT}=30W$ | | 35 | 38 | W |
| Power factor | $\text{Cos}\theta$ | $V_{IN}=220V, P_{OUT}=30W$ | | 0.5 | | |
| Output voltage | V_O | $P_{OUT}=0\sim30W$ | 11.5 | 12.0 | 12.5 | V |
| Output current | V_O | $V_{IN}=220V$ | | | 2.5 | A |
| Efficiency | | $V_{IN}=220V, P_{OUT}=30W$ | | 85 | | % |

ADP-30W12

Absolute maximum ratings

| | | |
|--|-------|-----------------|
| Lower Input supply voltage (V_{IN}) | ----- | 90V |
| Higher Input supply voltage (V_{IN}) | ----- | 250V |
| Output current (I_o) | ----- | 2.5A |
| Input power | ----- | 37W |
| Ambient operating temperature | ----- | 0 °C to 50 °C |
| Storage temperature range | ----- | -30 °C to 80 °C |
| Operating & storage humidity | ----- | 10 % to 85 % |

Recommended operating conditions (R.C.)

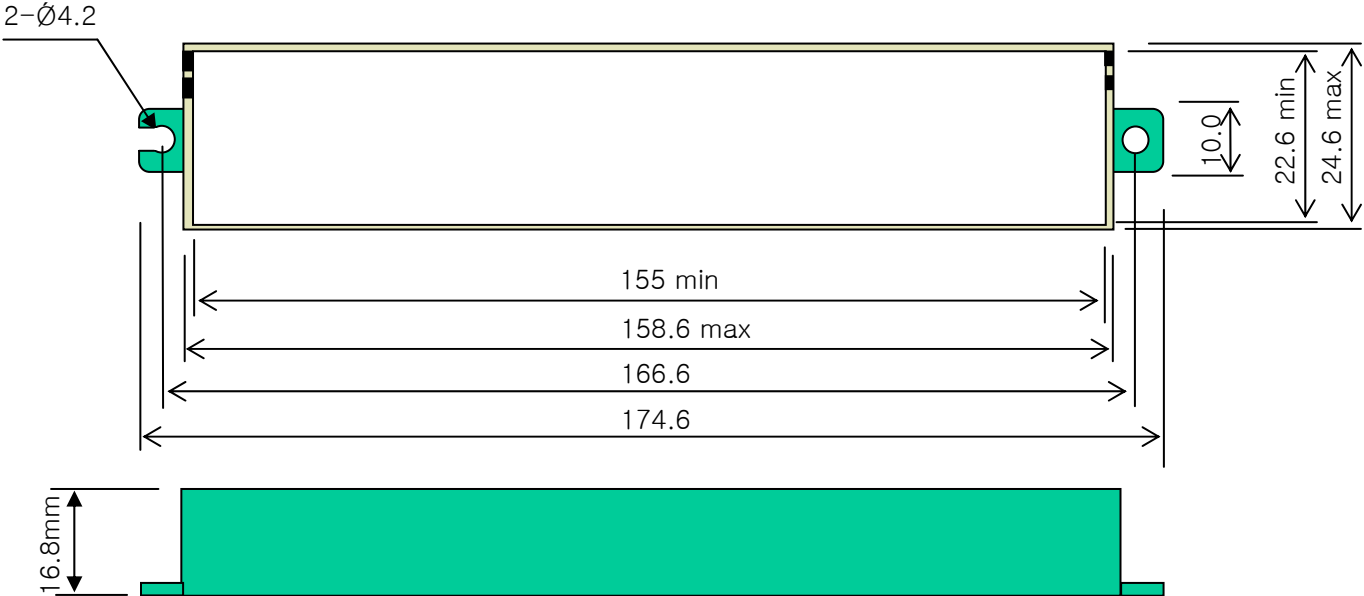
| Parameter | Symbol | Recommendation | | | Units |
|-------------------------------------|--------------|----------------|------|-----|-------|
| | | Min | R.C. | Max | |
| Input supply voltage | V_{IN} | 100 | | 240 | V |
| DC output voltage | V_o | | 12.0 | | V |
| Maximum Output current | $I_{O(MAX)}$ | | | 2.0 | A |
| Operating ambient temperature range | T_A | 0 | | 50 | °C |

Input & Output Wire or terminals

- AC Input : White & Black, AWG-18 (KSC3304) 180mm Length
- DC Output : DC+ : Red, AWG-20, 200mm Length
- DC- : Black, AWG-20, 200mm Length

Mechanical dimensions

Tolerance : ± 0.5
Unit : mm



Notice : The specification is subject to change without notice