

## ADP-30WFP-CV(24) Constant Voltage Source for LED drive



### Features

- AC 100-240V Wide input voltage range
- Fixed 24V output voltage (Other voltages available)
- Active PFC correction, PF>0.90
- Low THD under 30%
- Encapsulated, compact size
- Long life time over 30.000 Hr
- High efficiency
- Over current, Short protection circuit
- RoHS compatible
- Certified KC-Korea (KETI : HH11348-10008A)
- Certified PSE-Japan (JET 6380-61010-1001)

### 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        | $I_{IN}$           | $V_{IN}=220V, P_{OUT}=24W$ | 0.13           | 0.14 | 0.15 | A        |
| Power consumption    | $P_{IN}$           | $V_{IN}=220V, P_{OUT}=24W$ |                | 28   | 30   | W        |
| Power factor         | $\text{Cos}\theta$ | $V_{IN}=220V, P_{OUT}=24W$ | 0.9            |      |      |          |
| Output voltage       | $V_O$              | $P_{OUT}= 3\sim 24W$       | 23.5           | 24.0 | 24.5 | V        |
| Output current       | $V_O$              | $V_{IN}=220V$              | 0.1            |      | 1.0  | A        |
| Efficiency           |                    | $V_{IN}=220V, P_{OUT}=24W$ |                | 85   |      | %        |

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## Absolute maximum ratings

|  |       |                 |
|--|-------|-----------------|
| Lower Input supply voltage ( $V_{IN}$ )  | ----- | 90V             |
| Higher Input supply voltage ( $V_{IN}$ ) | ----- | 265V            |
| Output current ( $I_o$ )                 | ----- | 1.0A            |
| Input power                              | ----- | 32VA            |
| Ambient operating temperature            | ----- | -10 °C to 45 °C |
| Storage temperature range                | ----- | -30 °C to 80 °C |
| Operating & storage humidity             | ----- | 10 % to 85 %    |

## Recommended operating conditions (R.C.)

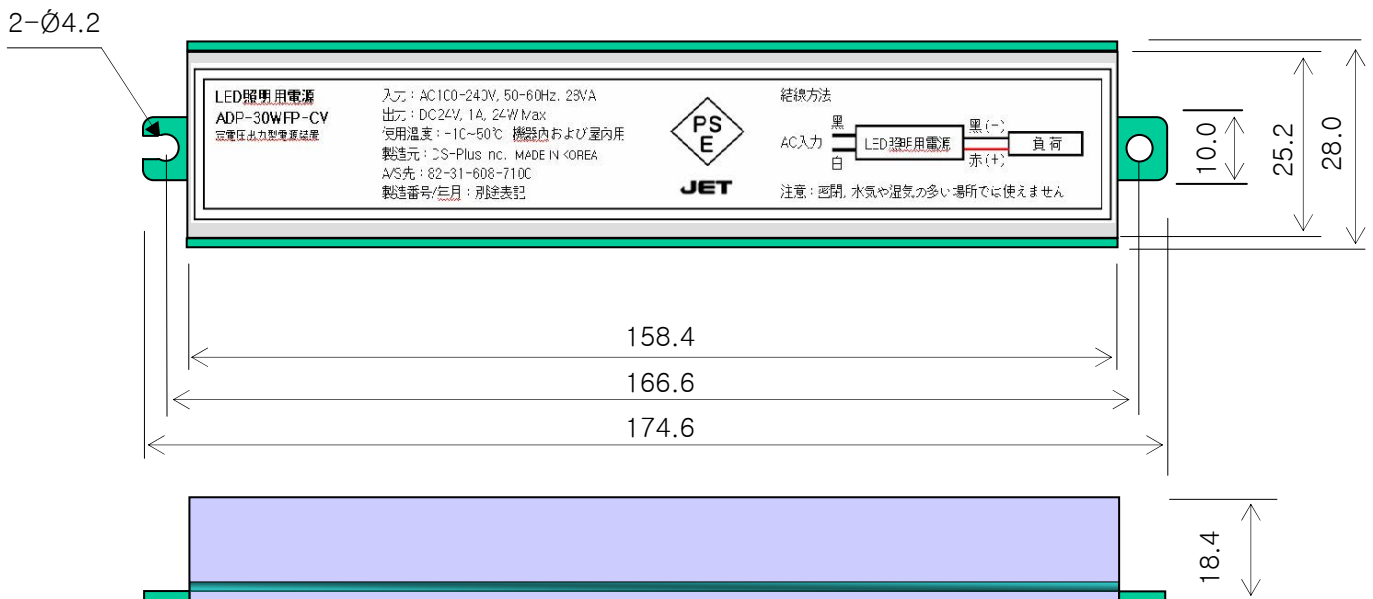
| Parameter                           | Symbol       | Recommendation |      |     | Units |
|-------------------------------------|--------------|----------------|------|-----|-------|
|                                     |              | Min            | R.C. | Max |       |
| Input supply voltage                | $V_{IN}$     | 100            |      | 240 | V     |
| DC output voltage                   | $V_o$        |                | 24.0 |     | V     |
| Output current                      | $I_{O(MAX)}$ | 0.1            |      | 1.0 | A     |
| Operating ambient temperature range | $T_A$        | -10            |      | 45  | °C    |

## Input & Output Wire or terminals

- AC Input : White & Black, AWG-18 (KSC3304) 180mm Length
- DC Output : DC+ : Red, AWG-20, 230mm Length
- DC- : Black, AWG-20, 230mm Length

## Mechanical dimensions

Tolerance : ± 0.5  
Unit : mm



Notice : The specification is subject to change without notice