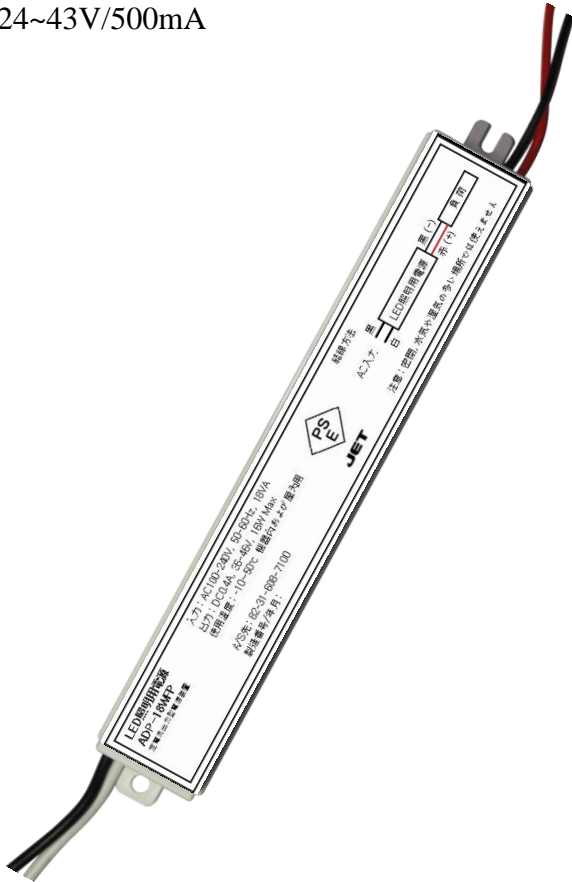


**ADP-18WFP****Constant Current Source for LED drive**

24~43V/500mA

Features

- AC 100-242V Wide input voltage range
- Instant ON (On delay Max: 100mS)
- Little flicker (R/R = 45% typ), Flicker free available
- 24 ~43V Constant Current Operation Range
- Active PFC correction, PF>0.90
- Low input current THD (Meet IEC61000-3-2 Class C)
- Encapsulated, compact size
- Long life time over 40.000 Hr
- RoHS
- Certified KC-Korea / PSE-Japan

Applications

- LED Lighting
- Advertising Light panel

**Electrical characteristics**

Parameter	Symbol	Conditions*	Specification*			Unit
			Min	Typ	Max	
Input supply voltage	$V_{IN}$		90	220	242	$V_{AC}$
Input current	$I_{IN}$	$V_{IN}=220V/24W$	0.09	0.11	0.13	A
Power consumption	$P_{IN}$	$V_{IN}=220V/V_O=42V$	23	24	25	W
Power factor	$\text{Cos}\theta$	$V_{IN}=220V/24W$	0.90	0.94		
Output current	$I_O$	$V_{IN}=220V$	480	500	520	mA
Available output voltage	$V_O$	$V_{IN}=220V$	24		43	V
No load output voltage	$V_{O-open}$	$V_{IN}=220V$			50	V
Efficiency		$V_{IN}=220V/24W$	85	86		%

\* Output current is 500mA and voltage is 42V

## Absolute maximum ratings

Lower Input supply voltage ( $V_{IN}$ )	-----	90V
Higher Input supply voltage ( $V_{IN}$ )	-----	264V
Maximum output voltage with load	-----	43V
Minimum output voltage with load	-----	24V
Output current ( $I_o$ )	-----	600mA
Input power	-----	28W
Ambient operating temperature	-----	-20 °C to 50 °C
Storage temperature range	-----	-30 °C to 80 °C
Operating & storage humidity	-----	10 % to 85 %

## Input & Output Wire or terminals

AC Input	:	White & Black, 0.75mm <sup>2</sup> HVSF, JET/PSE/KS, 180mm Length
DC Output	:	DC+ : Red, AWG-22, 230mm Length DC- : Black, AWG-22, 230mm Length

## Mechanical dimensions

Tolerance :  $\pm 0.5$   
Unit : mm

