

## ADP-45WFP

### Constant Current Source for LED drive



### **Features**

- KC certificated (HH11348-12016A)
- AC 100-240V wide input voltage range
- Constant current output (1.0A± 5%)
- 30~42V wide operational output voltage range
- Dimming control available (PWM , Option)
- Active PFC correction, PF>0.90
- Meet IEC61000-3-2 Class C
- Long life time over 40.000 Hr
- High efficiency
- Built-in short circuit protection

### **Applications**

- LED Lighting
- Advertising Light panel

### **Electrical characteristics**

Parameter	Symbol	Conditions*	Specification*			Unit
			Min	Typ	Max	
Input supply voltage	$V_{IN}$		90	220	240	$V_{AC}$
Input current	$I_{IN}$	$V_{IN}=220V$	0.22	0.25	0.28	A
Power consumption	$P_{IN}$	$V_{IN}=220V$	54	55	56	W
Power factor	$\lambda$	$V_{IN}=220V$	0.90	0.95		
Output current	$I_O$	$V_{IN}=220V$	0.95	1.00	1.05	A
Reference output voltage	$V_{O-REF}$	$V_{IN}=220V$	30		42	V
No load output voltage	$V_{O-OPEN}$	$V_{IN}=220V$		53		V
Efficiency		$V_{IN}=220V$	83			%

\* 2-channel output current are 500mA each at reference output voltages are 40V

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## **Absolute maximum ratings**

Lower Input supply voltage ( $V_{IN}$ )	-----	90V
Higher Input supply voltage ( $V_{IN}$ )	-----	264V
Maximum output voltage with load	-----	42V
Minimum output voltage with load	-----	30V
Output current ( $I_o$ )	-----	1200mA
Input power	-----	42W
Ambient operating temperature	-----	- 10 °C to 45 °C
Storage temperature range	-----	- 20 °C to 70 °C
Operating humidity	-----	10 % to 80 %
Storage humidity	-----	10 % to 90 %

## **Recommended operating conditions** (R.C.)

Parameter	Symbol	Recommendation			Units
		Min	R.C	Max	
Input supply voltage	$V_{IN}$	90	220	240	V
Output current (for channel)	$I_{IN}$	0.95	1.00	1.05	A
Reference output voltage (for LED)	$V_O$	30		42	Vdc
Operating ambient temperature range	$T_A$	- 10		45	°C

## **Mechanical dimensions**

Tolerance : ± 0.5  
Unit : mm



Notice : The specification is subject to change without notice