

ADP-48WFPR (Insulation)

Constant Current Source for LED drive



Features

- Low profile slim
- Insulation Type
- High efficiency
- No flicker output
(Option: Flicker output for High Efficiency)
- AC 100-240V wide input voltage range
- 32~42V wide operational output voltage range
- Active PFC correction, PF>0.95
- Long life time over 40,000 Hr
- Certified KS-Korea / PSE-Japan

Applications

- LED Lighting
- Flat LED Lamp

Electrical characteristics

Parameter	Symbol	Conditions	Specification			Unit
			Min	Typ	Max	
Input supply voltage	V_{IN}		90	220	260	V_{AC}
Input current	I_{IN}	$V_{IN}=220V$	0.21	0.23	0.25	A
Power consumption	P_{IN}	$V_{IN}=220V$	48	50	52	W
Power factor	$\cos\theta$	$V_{IN}=220V$		0.95		
Output current	I_O	$V_{IN}=220V$		1.1		A
Output voltage	V_{O-REF}	$V_{IN}=220V$		42		V
No load output voltage	V_{o-open}	$V_{IN}=220V$		48		V
Efficiency		$V_{IN}=220V$		87		%

ADP-48WFPR

Absolute maximum ratings

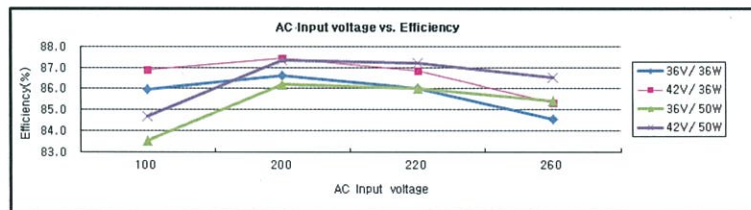
Lower Input supply voltage (V_{IN})	-----	85V
Higher Input supply voltage (V_{IN})	-----	260V
Maximum output voltage with load	-----	43V
Minimum output voltage with load	-----	32V
Output current (I_o)	-----	1.2A
Input power	-----	54W
Ambient operating temperature	-----	-20 °C to 50 °C
Storage temperature range	-----	-30 °C to 80 °C
Operating & storage humidity	-----	10 % to 85 %

Recommended operating conditions (R.C.)

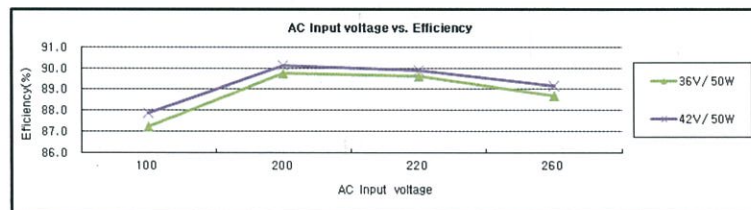
Parameter	Symbol	Recommendation			Units
		Min	R.C.	Max	
Input supply voltage	V_{IN}	90	220	240	V
Output current	I_o		1.1		A
Reference output voltage (for LED)	V_O	35	40	42	Vdc
Operating ambient temperature range	T_a	-20		50	°C

AC Input voltage vs. Efficiency

Flicker Free



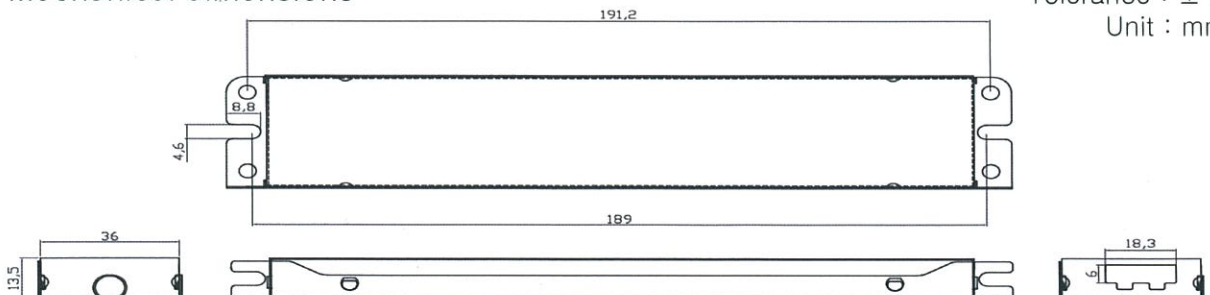
Non-Flicker Free



Input & Output Wire or terminals

- AC Input : White & Black & Green yellow, AWG18 200mm Length
- DC Output : Connector 20037WR-02 (Yeonho)

Mechanical dimensions



Notice : The specification is subject to change without notice