

ADP-55WNA-350mA

350mA Constant Current Source for LED drive



Features

- High Efficiency & Non insulation power
- AC 100-240V wide input voltage range
- 350mA constant current output
- 100~180V constant current operational range
- Less Flickering (Ripple ratio : 60%)
- Active PFC correction, PF>0.90
- Compact size, Water resist (IP65)
- Long life time over 40.000Hr at ambient 50 °C
- RoHS compatible

Applications

- LED Street Lighting

General Specifications

AC input voltage	90~264Vac, 47~63Hz
AC inrush current	30Amax at 240Vac, Cold start
DC output voltage	200Vmax at the condition of output open
DC output current	350mA \pm 20mA under 100~180Vof constant current operating range
Power factor	0.99 at 100V-Full load, 0.95 over at 200V-Full load
Efficiency	88 % over at 100V-Full load , 90% over at 200V-Full load
Working Temp.	-20 ~ +50 °C or -40 ~ +50 °C at the mechanically fixed condition
Short protection	No-damage when output short and restart at normal condition
Withstand voltage	I/P-O/P: 3.75KVac, I/P-FG: 1.5KVac, O/P-FG: 0.5KVac
Surge Immunity	L-N: 4KV, L/N-FG : 15KV
EMC standards	EN55015, EN61000-3-2 class C
Input wire	AWG18-UL1430, 0.75mm ² (15cm): Live/ Black, Neutral/ White, FG/Yellow&Green
Output wire	AWG18-UL1430, 0.75mm ² (15cm): LED+/Red, LED-/Black
Dim. & Weight	174.4mm(Total-L)/158.0mm(Body-L) \times 33.0mm(W) \times 23mm(H), 190g

Absolute maximum ratings

Lower Input supply voltage (V_{IN})	-----	90V
Higher Input supply voltage (V_{IN})	-----	265V
Maximum output voltage with load	-----	180V
Minimum output voltage with load	-----	90V
Output current (I_o)	-----	400mA
Input power	-----	60W
Ambient operating temperature	-----	-20 °C to 50 °C
Storage temperature range	-----	-40 °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	200	240	V
Input current (at $I_o=350mA$, $V_o=140V$)	I_{IN}	0.3	0.15	0.13	A
Reference output voltage (for LED)	V_o		140		V_{DC}
Operating ambient temperature range	T_A	-20		50	°C

Input & Output Wire

- AC Input : White & Black, AWG-18(UL1430) 150mm Length
- DC Output : DC+ : Red, AWG-18(UL1430) 150mm Length
- DC- : Black, AWG-18(UL1430) 150mm Length

Mechanical dimensions

