

ADP-33WRP

Constant Current Source for LED drive



Features

- AC 100-240V wide input voltage range
- constant current output
- 32~46V constant current operational 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
- High efficiency
- RoHS compatible

Applications

- LED Lighting
- Advertising Light panel
- Down Light

Electrical characteristics

Parameter	Symbol	Conditions*	Specification*			Unit
			Min	Typ	Max	
Input supply voltage	V_{IN}		90	220	242	V_{AC}
Input current	I_{IN}	$V_{IN}=220V, V_O=40V$	0.13	0.14	0.3	A
Power consumption	P_{IN}	$V_{IN}=220V, V_O=40V$		30	32	W
Power factor	λ	$V_{IN}=100\sim 240V$	0.90	0.95		
Output current	I_O	$V_{IN}=100\sim 240V$	630	650	670	mA
Reference output voltage	V_{O-REF}	$V_{IN}=100\sim 240V$		40		V
No load output voltage	V_{O-OPEN}	$V_{IN}=100\sim 240V$		45		V
Efficiency		$V_{IN}=220V, V_O=40V$	80	85		%

Absolute maximum ratings

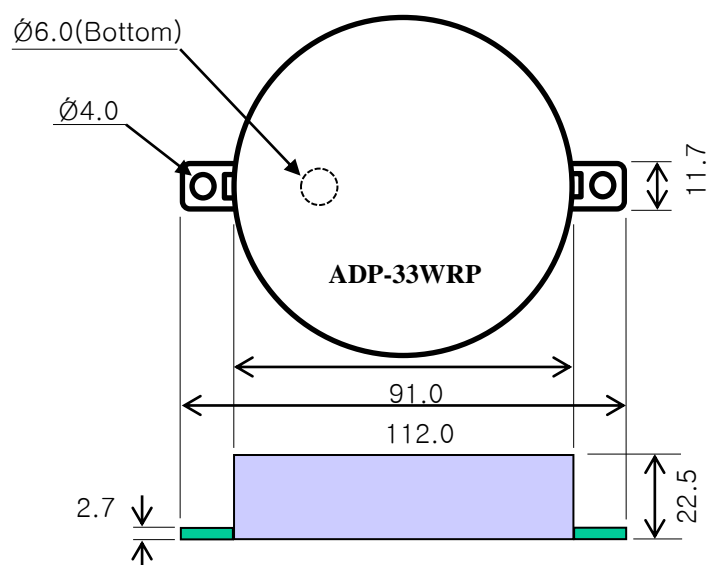
Lower Input supply voltage (V_{IN})	-----	90V
Higher Input supply voltage (V_{IN})	-----	265V
Maximum output voltage with load	-----	46V
Minimum output voltage with load	-----	32V
Output current (I_O)	-----	650mA
Input power	-----	30W
Ambient operating temperature	-----	-10 °C to 50 °C
Storage temperature range	-----	-20 °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	220	240	V
Input current (at $I_O=650mA$, $V_O=40V$)	I_{IN}	0.13	0.14	0.30	A
Reference output voltage (for LED)	V_O	40	40	46	V_{DC}
Operating ambient temperature range	T_A	-10		50	°C

Input & Output Wire or terminals

AC Input	:	White & Black, AWG-18 (KSC3304) 220mm Length
DC Output	:	DC+ : Red, AWG-20, 250mm Length
		DC- : Black, AWG-20, 250mm Length

Mechanical dimensions

Tolerance : ± 0.5
 Unit : mm

Notice : The specification is subject to change without notice