



Features

- Universal AC input / Full range (up to 305VAC)
- Built-in active PFC function
- High efficiency up to 90%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Fully encapsulated with IP67 level
- Class II power unit, no FG
- · Class 2 power unit
- Suitable for dry / damp / wet locations
- No load power consumption<0.15W
- 5 years warranty

Appications

- Indoor LED lighting
- LED lighting decorative
- LED architecture lighting
- Moving sign
- Tunnel lighting

Features

AV36060IP67 is one 60W waterproof single-output LED power supply series. It adopts the universal input range from 90VAC to 305VAC and incorporates the built-in PFC function. The enclosure design is a 94V-0 flame retardant plastic case. The interior is fully potted with silicone that enhances the heat dissipation and allows the power supply to meet the anti-vibration demand up to 5G; it also thus conforms to IP67 level, enabling AV36060IP67 to be used in a highly dusty and highly humid hars environment.

Providing a high efficiency up to 90% and a low no load power comsumption below 0.15W, AV36060IP67 can meet the energy saving demand for the new generation LED lighting. The class II design (without FG pin) and the double insulation weather-resistant cable (SJTW) on the input side make it convenient for users to flexibly install on various types of lighting systems. The entire series can operate under the temperature between -40~+70°C and comply with the relevant global lighting safety certification.



SPECIFICATION

MODEL							AV36060IP67				
	DC VOLTAGE						36V				
	CONSTANT CURRENT REGION						21.6~36V				
OUTPUT	RATED CURRENT						1.67A				
	RATED POWER						60.12W				
	RIPPLE & NOISE (max.) Note.2						200mVp-p				
	VOLTAGE TOLERANCE Note.3						±2.0%				
	LINE REGULATION						±0.5%				
	LOAD REGULATION						±0.5%				
	SETUP, RISE TIME Note.4	500ms, 80m	ns at 95% loa	ad 115VAC	C / 230VAC			1			
	HOLD UP TIME (Typ.)	16ms/230VAC 16ms/115VAC at full load									
INPUT	VOLTAGE RANGE	90 ~ 305VAC 127 ~ 431VDC									
	FREQUENCY RANGE	47 ~ 63Hz									
	POWER FACTOR (Typ.)	PF>0.97/115VAC, PF>0.95/230VAC, PF>0.92/277VAC at full load (Please refer to "Power Factor Characteristic" curv									
		THD<20% when output loading \geq 60% at 115VAC/230VAC input and output loading \geq 75% at 277VAC input									
	EFFICIENCY (Typ.)	86%	87%	88%	89%	90%	90%	90%	90%	90%	
	AC CURRENT (Typ.)	0.8A/115VAC 0.4A/230VAC 0.32A/277VAC									
	INRUSH CURRENT(Typ.)	COLD START 50A(twidth=270µs measured at 50% Ipeak) at 230VAC									
	LEAKAGE CURRENT	<0.25mA / 277VAC									
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed									
		95 ~ 108%									
	OVER CURRENT	Protection type : Constant current limiting, recovers automatically after fault condition is removed									
	OVER VOLTAGE	15~17V		/ 23 ~ 27V	28 ~ 34V	34 ~ 40V	41 ~ 46V	46 ~ 54V	54 ~ 60V	59 ~ 66V	
	OVER TEMPERATURE	Protection type : Shut down o/p voltage, re-power on to recover Shut down o/p voltage, re-power on to recover									
ENVIRONMENT	WORKING TEMP.	$-40 \sim +70^{\circ}$ C (Refer to "Derating Curve")									
		20 ~ 95% RH non-condensing									
	STORAGE TEMP., HUMIDITY										
	TEMP. COEFFICIENT	±0.03%/C (0 ~ 50°C)									
	VIBRATION	10 ~ 500Hz, 5G 12min./1cycle, period for 72min. each along X, Y, Z axes									
	VIDICATION .	UL8750, CSA C22.2 No. 250.13-12, ENEC EN61347-1, EN61347-2-13, EN62384 independent,									
SAFETY &	SAFETY STANDARDS	IP67 approved; Design refer to EN60335-1									
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC									
ЕМС	ISOLATION RESISTANCE										
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≧60% load) ; EN61000-3-3									
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; EN61547, light industry level(surge 2KV), criteria A									
OTHERS	MTBF	367.46 K hrs min. MIL-HDBK-217F (25° C)									
	DIMENSION	150*53*35mm (L*W*H)									
	PACKING	0.49Kg;30pcs/15.7Kg/1.0CUFT									
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25° C of ambient temperature.										
NUTE	 Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 470 capacitor. Tolerance : includes set up tolerance, line regulation and load regulation. Length of set up time is measured at cold first start. Turning ON/OFF the power supply may lead to increase of the 									parallel	





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