

# Professionally approved products. Datasheet

## Constant Voltage LED Driver 36W 36V 1A RS

RS Stock number 660-0283



### Features :

- Constant voltage design
- · Universal AC input / Full range
- Withstand 300VAC surge input for 5 seconds
- · Protections: Short circuit / Overload / Over voltage
- · Cooling by free air convection
- Fully encapsulated with IP67 level (Note.9)
- Fully isolated plastic case
- · Class II power unit, no FG
- · Class 2 power unit
- Pass LPS
- Suitable for LED lighting and moving sign applications (Note.8)
- 100% full load burn-in test
- · Low cost, high reliability



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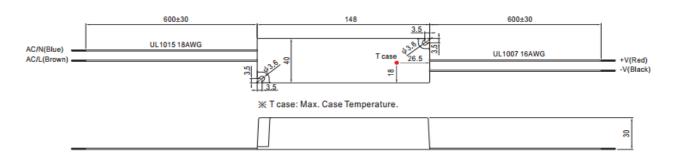
MODEL	-	LPV-35-5	LPV-35-12	LPV-35-15	LPV-35-24	LPV-35-36	
	DC VOLTAGE	5V	12V	15V	24V	36V	
OUTPUT	RATED CURRENT	5A	3A	2.4A	1.5A	1A	
	CURRENT RANGE	0 ~ 6A (Note.7)	0 ~ 3A	0~2.4A	0 ~ 1.5A	0~1A	
	RATED POWER	30W	36W	36W	36W	36W	
	RIPPLE & NOISE (max.) Note.2	80mVp-p	120mVp-p	120mVp-p	150mVp-p	150mVp-p	
	VOLTAGE TOLERANCE Note.3		±5.0%				
	LINE REGULATION	±1.0%					
	LOAD REGULATION	±4.0%	±2.0%				
	SETUP, RISE TIME Note.6	500ms, 20ms / 230VAC	500ms, 20ms / 115VAC at full load				
	HOLD UP TIME (Typ.)	50ms/230VAC 16ms	s/115VAC at full load				
	VOLTAGE RANGE Note.4	90 ~ 264VAC 127 ~ 370VDC					
INPUT	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY (Typ.)	77%	84%	84%	85%	85%	
	AC CURRENT (Typ.)	1.1A/115VAC 0.7A/230	15VAC 0.7A/230VAC				
	INRUSH CURRENT(Typ.)	COLD START 55A(twidth=510µs measured at 50% Ipeak) at 230VAC					
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	4 units (circuit breaker of type B) / 7 units (circuit breaker of type C) at 230VAC					
	LEAKAGE CURRENT	0.25mA/240VAC					
PROTECTION	OVERLOAD	110 ~ 150% rated output power					
	OVERLOAD	Protection type: Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	5.75 ~ 6.75V	13.8 ~ 16.2V	17.25 ~ 20.25V	27.6 ~ 32.4V	41.4 ~ 48.6V	
		Protection type : Shut down o/p voltage, re-power on to recover					
ENVIRONMENT	WORKING TEMP.	-30 ~ +65°C (Refer to "Derating Curve")					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC	SAFETY STANDARDS	UL1310 class 2, CAN/CSA No. 223-M91, CB IEC61347-1,IEC61347-2-13,IP67 approved; design refer to TUV EN60950-1					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC					
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25°C/ 70% RH					
	EMC EMISSION	Compliance to EN55022 (CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, light industry level, criteria A					
OTHERS	MTBF	743.5Khrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	148*40*30mm (L*W*H)					
	PACKING	0.34Kg; 40pcs/14.6Kg/0.6	63CUFT				
NOTE	<ol> <li>All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>Tolerance: includes set up tolerance, line regulation and load regulation.</li> <li>Derating may be needed under low input voltage. Please check the static characteristics for more details.</li> <li>The power supply is considered as a component that will be operated in combination with final equipment. Since EMC performance will be affected by the complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.</li> <li>Length of set up time is measured at first cold start. Turning ON/OFF the power supply may lead to increase of the set up time.</li> <li>LPV-35-5 can provide 6A of output current continuously. Based on the requirement of UL1310 class 2, the output current is only certified up to 5A for the test report of LPV-35-5.</li> <li>The unit might not be suitable for lighting applications in EU countries. Please check with your local authorities for the possible use of the unit.</li> <li>Suitable for indoor use or outdoor use without direct sunlight exposure. Please avoid immerse in the water over 30 minute.</li> </ol>						



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#### ■ Mechanical Specification

Case No.975A Unit:mm

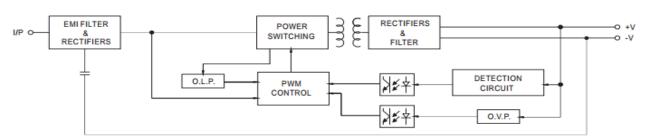


#### ■ Recommend Mounting Direction



### ■ Block Diagram

fosc: 65KHz



### ■ Derating Curve

#### ■ Static Characteristics

