
**■ Features :**

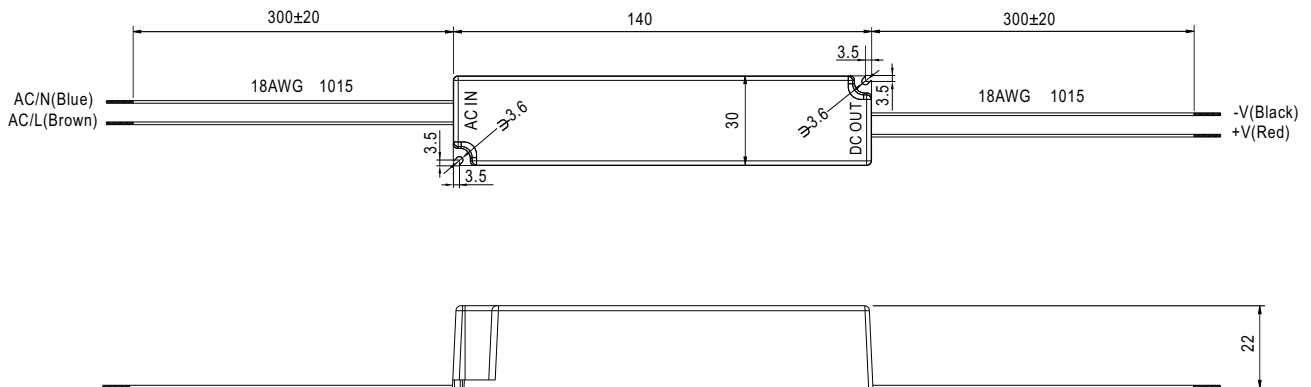
- 180-264VAC input only
- Fully encapsulated with IP67 level
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Pass LPS
- 100% full load burn-in test
- Suitable for LED lighting and moving sign applications
- High reliability / Low cost
- 2 years warranty

**SPECIFICATION**
**LPS IP67**

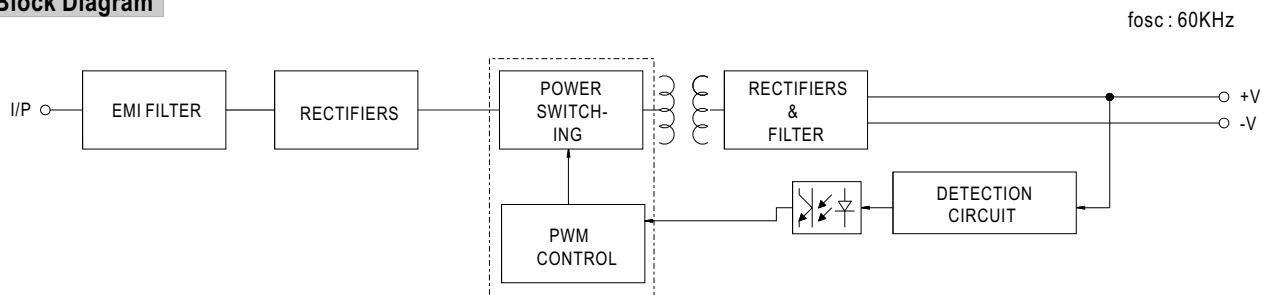

MODEL		LPH-18-12		LPH-18-24		LPH-18-36	
OUTPUT	DC VOLTAGE	12V		24V		36V	
	RATED CURRENT	1.5A		0.75A		0.5A	
	CURRENT RANGE	0 ~ 1.5A		0 ~ 0.75A		0 ~ 0.5A	
	RATED POWER	18W		18W		18W	
	RIPPLE & NOISE (max.) Note.2	120mVp-p		150mVp-p		200mVp-p	
	VOLTAGE TOLERANCE Note.3	±3.0%					
	LINE REGULATION	±1.0%					
	LOAD REGULATION	±2.0%					
	SETUP, RISE TIME	1500ms, 30ms / 230VAC					
	HOLD UP TIME (Typ.)	50ms/230VAC at full load					
INPUT	VOLTAGE RANGE	180 ~ 264VAC		254 ~ 370VDC			
	FREQUENCY RANGE	47 ~ 63Hz					
	EFFICIENCY(Typ.)	78%		82%		83%	
	AC CURRENT	0.3A/230VAC					
	INRUSH CURRENT(max.)	Cold start 50A/230VAC					
	LEAKAGE CURRENT	0.25mA / 240VAC					
PROTECTION	OVER CURRENT	Above 105% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed					
	OVER VOLTAGE	13.8~ 16.2V		27.6~ 32.4V		41.4 ~ 48.6V	
		Protection type : Shut off o/p voltage, clamping by zener diode					
	OVER TEMPERATURE	Tj 170 t typically (U1) Detect on main control IC Protection type : Hiccup mode, recovers automatically after temperature goes down					
ENVIRONMENT	WORKING TEMP.	-30 ~ 70℃ (Refer to output load derating curve)					
	WORKING HUMIDITY	20 ~ 90% RH non-condensing					
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH					
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)					
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes					
SAFETY & EMC (Note 4)	SAFETY STANDARDS	TUV EN60950-1, IP67 approved; design refer to UL1310 Class 2, EN61347-2-13, CAN/CSA C22.2 No. 223-M91					
	WITHSTAND VOLTAGE	I/P-O/P:3KVAC					
	ISOLATION RESISTANCE	I/P-O/P:>100M Ohms / 500VDC / 25℃ / 70% RH					
	EMI CONDUCTION & RADIATION	Compliance to EN55022 (CISPR22) Class B					
	HARMONIC CURRENT	Compliance to EN61000-3-2 Class A, EN61000-3-3					
	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A					
OTHERS	MTBF	1200.6K hrs min. MIL-HDBK-217F (25 )					
	DIMENSION	140*30*22(L*W*H)					
	PACKING	0.175Kg; 70pcs/13.3Kgs/0.71CUFT					
NOTE	1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature. 2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. 3. Tolerance : includes set up tolerance, line regulation and load regulation. 4. 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.						

## Mechanical Specification

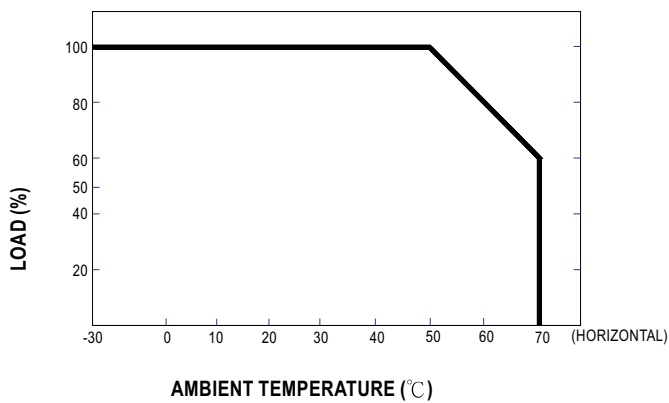
Unit:mm



## Block Diagram



## Derating Curve



## Static Characteristics

