



Features :

- Constant voltage mode power supply
- Built in active PFC function
- Protections: Short circuit / Over load
- Fully isolated plastic case
- Cooling by free air convection
- Small and compact size
- IP30 design
- Class 2 power unit
- Class II power unit, no FG
- Pass LPS
- 100% full load burn-in test
- Low cost, high reliability
- Suitable for LED lighting and moving sign applications
- 2 years warranty

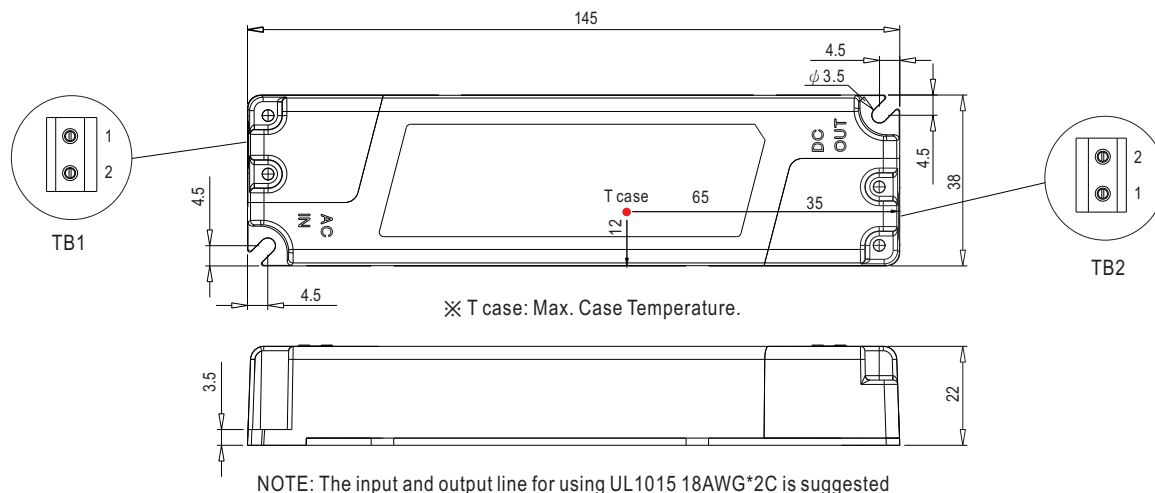
SPECIFICATION



MODEL		PLV-12-12	PLV-12-24	PLV-12-36	PLV-12-48	PLV-12-54
OUTPUT	DC VOLTAGE	12V	24V	36V	48V	54V
	RATED CURRENT	1A	0.5A	0.34A	0.25A	0.23A
	CURRENT RANGE	0 ~ 1A	0 ~ 0.5A	0 ~ 0.34A	0 ~ 0.25A	0 ~ 0.23A
	RATED POWER	12W	12W	12.24W	12W	12.42W
	RIPPLE & NOISE (max.) Note.2	1.1Vp-p	2.2Vp-p	3.3Vp-p	4.4Vp-p	5.0Vp-p
	VOLTAGE TOLERANCE Note.3	±5.0%				
	LINE REGULATION	±1.0%				
	LOAD REGULATION	±2.0%				
INPUT	SETUP, RISE TIME Note.6	500ms, 30ms / 230VAC				
	NO LOAD VOLTAGE(max.)	14V	30V	45V	60V	67V
	VOLTAGE RANGE Note.4	180 ~ 264VAC 254 ~ 370VDC				
	FREQUENCY RANGE	47 ~ 63Hz				
	POWER FACTOR (Typ.)	PF>0.92/230VAC at full load (Please refer to "Power Factor Characteristic" curve)				
	EFFICIENCY (Typ.)	84%	86%	87%	87%	88%
	AC CURRENT	0.4A/230VAC				
PROTECTION	INRUSH CURRENT(Typ.)	COLD START 20A(twidth=310μs measured at 50% Ipeak) at 230VAC				
	LEAKAGE CURRENT	0.5mA / 240VAC				
ENVIRONMENT	OVER CURRENT	Above 110% rated output power Protection type : Hiccup mode, recovers automatically after fault condition is removed				
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed				
SAFETY & EMC	WORKING TEMP.	-30 ~ 60℃ (Refer to "Derating Curve")				
	WORKING HUMIDITY	20 ~ 90% RH non-condensing				
	STORAGE TEMP., HUMIDITY	-40 ~ +80℃, 10 ~ 95% RH				
	TEMP. COEFFICIENT	±0.03%/℃ (0 ~ 50℃)				
OTHERS	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes				
	SAFETY STANDARDS	UL8750, CSA C22.2 No. 250.0-08(except for PLD-25-350, PLD-25-700), ENEC EN 61347-1, EN 61347-2-13 independent, EN 62384, IP30 approved ; design refer to UL60950-1, TUV EN60950-1				
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC				
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25℃/ 70% RH				
NOTE	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (v _{II} 75% load) ; EN61000-3-3, FCC part 18 non-consumer equipment				
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11, EN55024, EN61547, light industry level, criteria A				
	MTBF	692.8K hrs min. MIL-HDBK-217F (25℃)				
OTHERS	DIMENSION	145*38*22mm (L*W*H)				
	PACKING	0.13Kg; 72pcs / 10.4Kg / 0.92CUFT				
NOTE		<ol style="list-style-type: none"> 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. Derating may be needed under low input voltage. Please check the static characteristics for more details. 5. 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. 6. 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. 7. 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. 				

■ Mechanical Specification

Case No. PLM-25 Unit:mm



NOTE: The input and output line for using UL1015 18AWG*2C is suggested

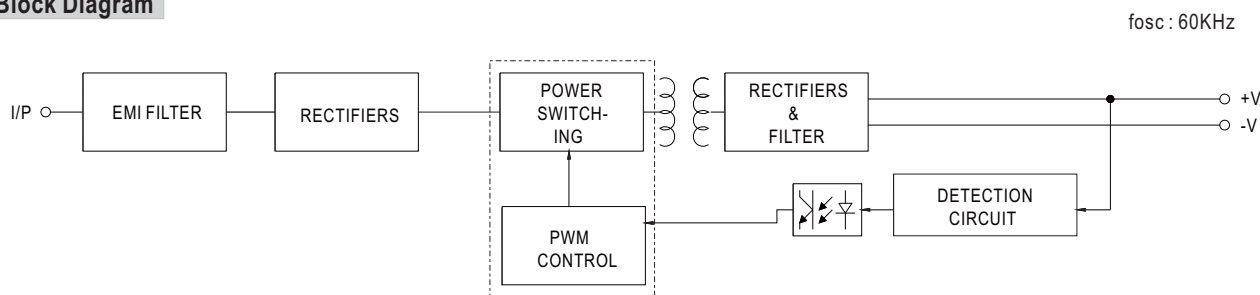
Terminal Pin No. Assignment (TB1):
SWITCHLAB MWX201-75002EB(GRAY)

Pin No.	Assignment
1	AC/L
2	AC/N

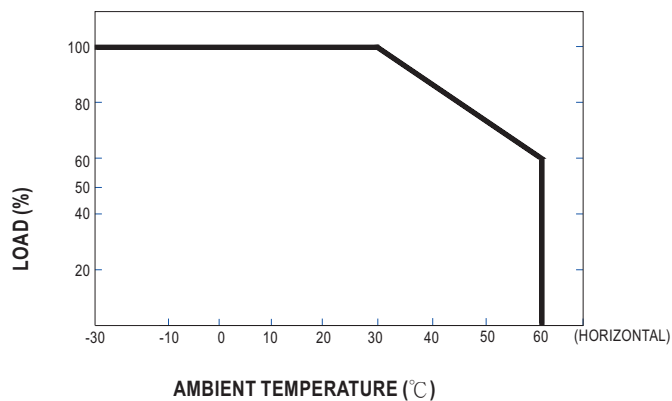
Terminal Pin No. Assignment (TB2) :
SWITCHLAB MWX201-75002B(BLUE)

Pin No.	Assignment
1	+V
2	-V

■ Block Diagram



Derating Curve



■ Static Characteristics

