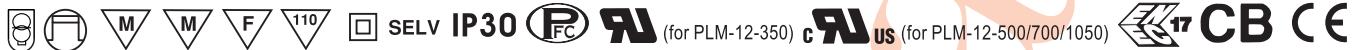




■ Features :

- Universal AC input / Full range(up to 295VAC)
- Protections:Short circuit
- Cooling by free air convection
- Fully isolated plastic case
- Built-in active PFC function
- Small and compact size
- Class II power unit, no FG
- 100% full load burn-in test
- High reliability,low cost
- Suitable for LED lighting and moving sign applications
- 2 years warranty

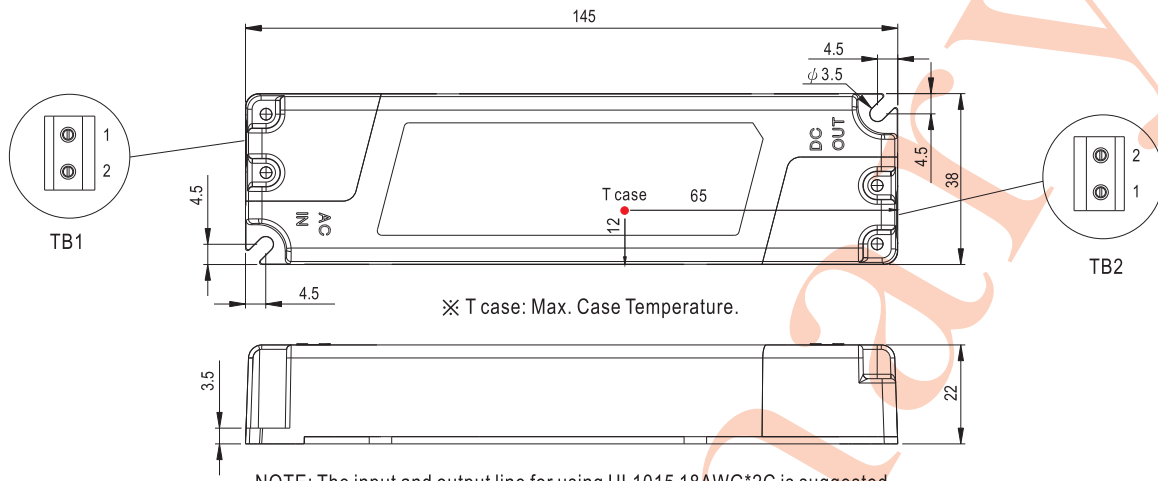


SPECIFICATION

MODEL	PLM-12-350	PLM-12-500	PLM-12-700	PLM-12-1050	
OUTPUT	LED OPERATION VOLTAGE Note.4	18 ~ 36V	12 ~ 24V	9 ~ 18V	6 ~ 12V
	RATED CURRENT	0.35A	0.5A	0.7A	1.05A
	NO-LOAD OUTPUT VOLTAGE(max.)	40V	28V	22V	16V
	RATED POWER	12.6W	12W	12.6W	12.6W
	RIPPLE & NOISE (max.) Note.2	3.6Vp-p	2.4Vp-p	1.8Vp-p	1.2Vp-p
	CURRENT ACCURACY	±5.0%			
	SETUP TIME	500ms / 115VAC, 230VAC at full load			
INPUT	VOLTAGE RANGE Note.3	90 ~ 295VAC 127~417VDC			
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR	PF ≥ 0.97/115VAC, PF ≥ 0.95/230VAC, PF > 0.9/277VAC(at full load)(Please refer to "Power Factor Characteristic" curve)			
	EFFICIENCY(Typ.)	85%	84%	83%	82%
	AC CURRENT	0.15A/115VAC	0.08A/230VAC	0.07A/277VAC	
	INRUSH CURRENT(Typ.)	COLD START 40A(twidth=25µs measured at 50% Ipeak) at 230VAC			
	LEAKAGE CURRENT	0.5mA / 240VAC			
PROTECTION	SHORT CIRCUIT: Hiccup mode, recovers automatically after fault condition is removed.				
ENVIRONMENT	WORKING TEMP.	-30 ~ +60°C (Refer to "Derating Curve")			
	WORKING HUMIDITY	20 ~ 90% RH non-condensing			
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH			
	TEMP. COEFFICIENT	±0.06%/°C (0 ~ 50°C)			
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes			
SAFETY & EMC	SAFETY STANDARDS	UL8750, CSA C22.2 No. 250.13-12 (except for PLM-12-350), ENEC EN61347-1, EN61347-2-13, EN62384, IP30 approved			
	WITHSTAND VOLTAGE	I/P-O/P:3.75KVAC			
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms/500VDC / 25°C/ 70%RH			
	EMC EMISSION	Compliance to EN55015, EN61000-3-2 Class C (≥50% load); EN61000-3-3			
	EMC IMMUNITY	Compliance to EN61000-4-2, 3, 4, 5, 6, 8, 11; EN61547, light industry level, criteria A(surge 2KV)			
OTHERS	MTBF	Khrs min. MIL-HDBK-217F (25°C)			
	DIMENSION	145*38*22mm (L*W*H)			
	PACKING	Kg; pcs/ Kg/ CUFT			
NOTE	<ol style="list-style-type: none"> 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C 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. Derating may be needed under low input voltage, please check the static characteristic for more details. 4. Constant current operation region is within 50% ~ 100% rated output voltage. This is the suitable operation region for LED related applications, but please reconfirm special electrical requirements for some specific system design. 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. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers. 				

Mechanical Specification

Case No. PLM-25 Unit: mm



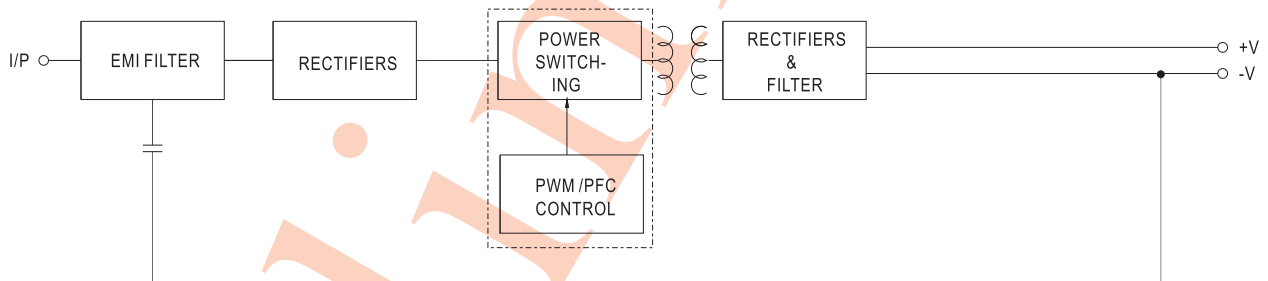
Terminal Pin No. Assignment (TB1):
SWITCHLAB MWX201-75002EB (GRAY)

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

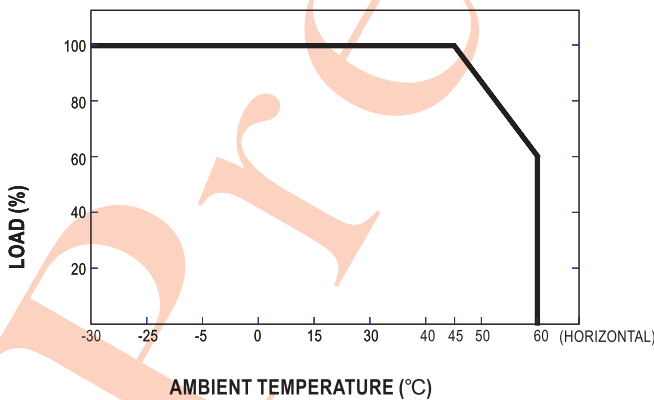
Terminal Pin No. Assignment (TB2):
SWITCHLAB MWX201-75002B (BLUE)

Pin No.	Assignment
1	+V
2	-V

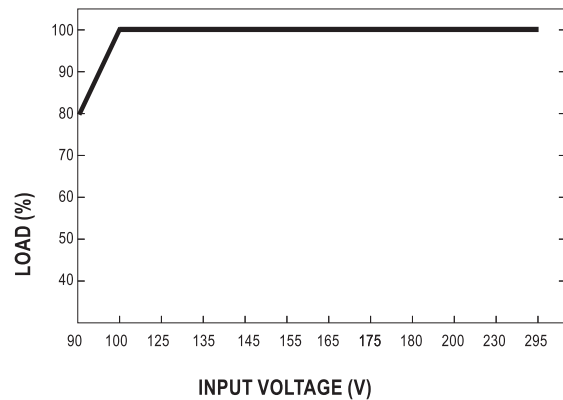
Block Diagram



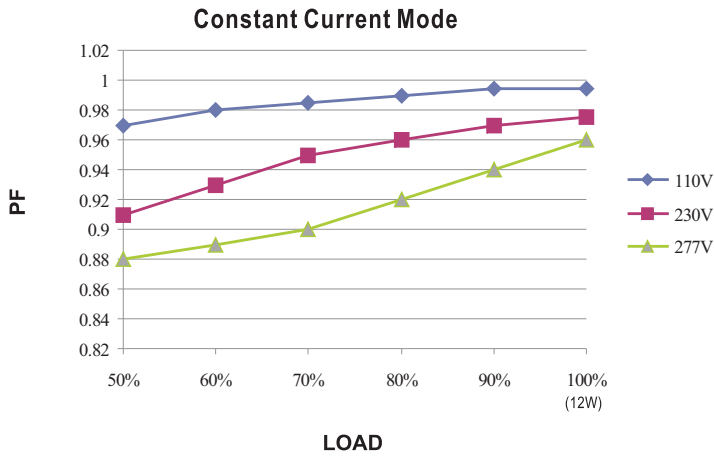
Derating Curve



Static Characteristics



Power Factor Characteristic



EFFICIENCY vs LOAD (500mA Model)

