



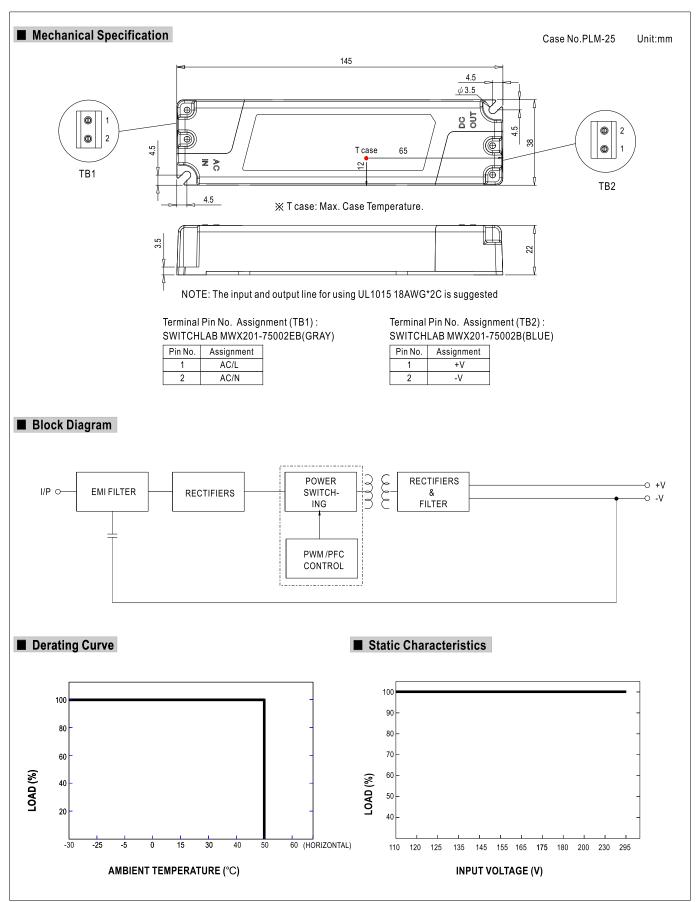
■ Features :

- 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
- \bullet Class ${\rm I\hspace{-.1em}I}$ power unit, no FG
- Class 2 power unit
- 100% full load burn-in test
- No load power consumption <0.5W
- High reliability,low cost
- Suitable for LED lighting and moving sign applications
- 2 years warranty

SPECIFICATION

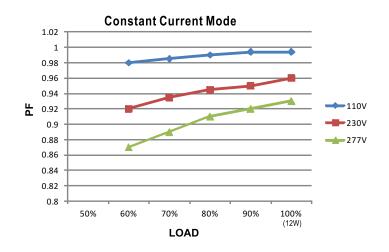
MODEL		PLM-12-350	PLM-12-500	PLM-12-700	PLM-12-1050		
ОИТРИТ	LED OPERATION VOLTAGE Note.5	22 ~ 36V	15 ~ 24V	11 ~ 18V	7 ~ 12V		
	RATED CURRENT	0.35A	0.5A	0.7A	1.05A		
	NO-LOAD OUTPUT VOLTAGE(max.)	42V	30V	22V	16V		
	RATED POWER	12.6W	12W	12.6W	12.6W		
	RIPPLE & NOISE (max.) Note.2		2.4Vp-p	2.4Vp-p	1.8Vp-p		
	CURRENT ACCURACY Note.3		1 1 1				
	SETUP TIME	500ms / 115VAC, 230VAC at full load					
	VOLTAGE RANGE Note.4	110 ~ 295VAC 156 ~ 416VDC					
	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%	81%		
	AC CURRENT	0.15A/115VAC					
	INRUSH CURRENT(Typ.)	COLD START 15A(twidth=50µs measured at 50% lpeak) at 230VAC					
	LEAKAGE CURRENT	0.25mA / 240VAC					
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.					
ENVIRONMENT	WORKING TEMP.	-30 ~ +50°C					
	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, 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(≥60% load);EN61000-3-3					
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8,11;EN61547, light industry level, criteria B(surge 2KV)					
OTHERS	MTBF	808.162Khrs min. MIL-HDBK-217F (25°C)					
	DIMENSION	145*38*22mm (L*W*H)					
	PACKING	0.126Kg;60pcs/8.6 Kg/0.48CUI	FT				
NOTE	 All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor. Please see "AC input voltage drop vs. output current characteristics" table. Derating may be needed under low input voltage, please check the static characteristic for more details. Constant current operation region is within 60% ~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. 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. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers. 						



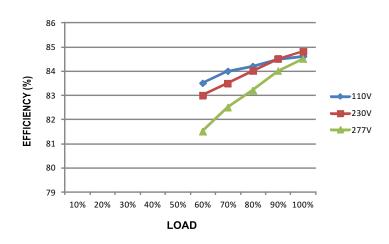




■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (500mA Model)



■ AC input voltage drop vs. output current characteristics

AC input drop	10%	8%	5%	3%
lo drop	<15%	<11%	<7%	<6%

NOTE: Output current will return to the rated value within 50ms