













#### Features

- 230VAC only or Full range (up to 295VAC) models available
- Built-in active PFC function
- Constant current design
- · Protections:Short circuit
- · Cooling by free air convection
- Fully isolated plastic case
- · Class II power unit, no FG
- Class 2 power unit(for PLM-25-500/700/1050)
- No load power consumption <0.5W</li>
- · High reliability, low cost
- 2 years warranty

## Applications

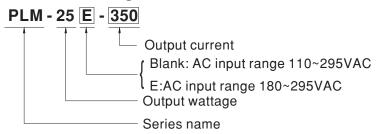
- Indoor LED lighting
- · LED office lighting
- · LED commercial lighting
- LED decorative lighting

### Description

PLM-25 is a 25W economical AC/DC LED power supply series. Incorporating a built-in active PFC design, PLM-25 provides a high Power Factor value greater than 0.9. In addition, with the low no load power consumption below 0.5W, and the setup time less than 500ms, PLM-25 is complied with the ErP regulation required by European Union for lighting fixtures.

plastic case. The I/O terminals are designed with screw-less clamp style terminal block that greatly simplifies the wiring installation. Two types of models with different input voltage range are offered: PLM-25 series, which operates from 110~295VAC, and PLM-25E series, which operates from 180~295VAC. These two series are both constant current output design, supplying models with the current of 350mA, 500mA, 700mA and 1050mA, respectively.

### ■ Model Encoding

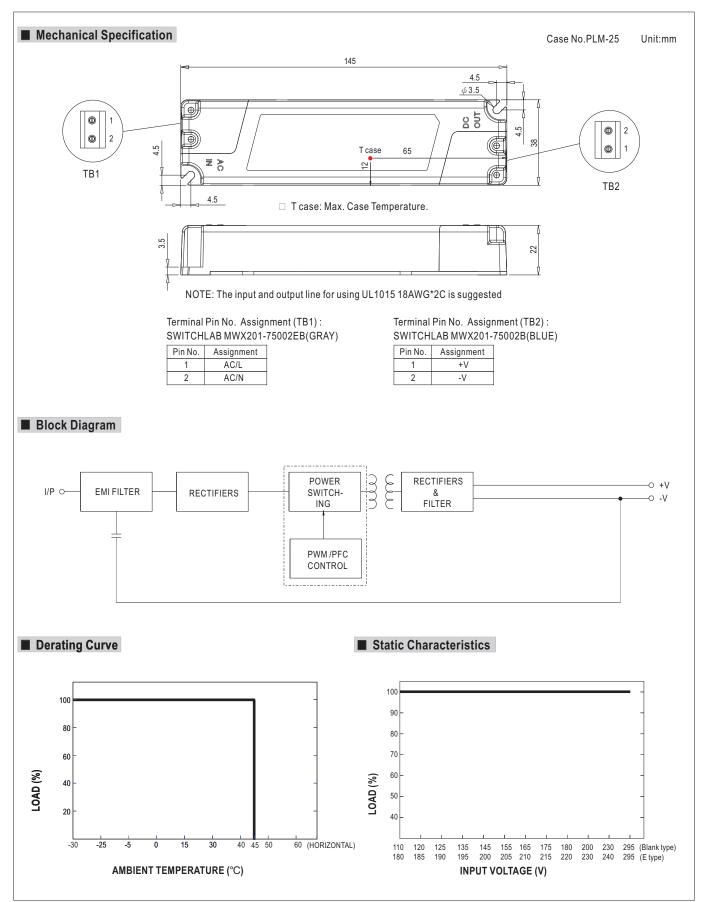




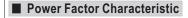
### **SPECIFICATION**

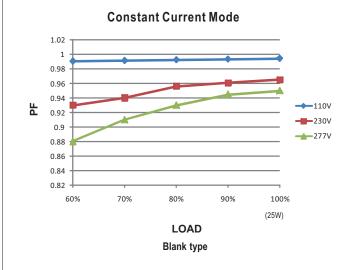
MODEL		PLM-25 □-350	PLM-25□-500	PLM-25 □ -700	PLM-25 □ -1050		
	CONSTANT CURRENT REGION Note.5		42 ~ 72V	30 ~ 50V	21 ~ 36V	14 ~ 24V	
ОИТРИТ	RATED CURREN		0.35A	0.5A	0.7A	1.05A	
	NO LOAD OUTPUT VOLTAGE(max.)		80V	56V	42V	28V	
	RATED POWER		25.2W	25W	25.2W	25.2W	
	RIPPLE & NOISE (max.) Note.2	Blank type	7.2Vp-p	5.0Vp-p	3.6Vp-p	2.4Vp-p	
		E type	9Vp-p	7.5Vp-p	5.4Vp-p	3.6Vp-p	
	CURRENT ACCURACYNote.3		±5.0%				
	SETUP TIME		Blank type: 500ms / 115VAC, 230VAC at full load; E type: 500ms / 230VAC at full load				
INPUT	VOLTAGE RANGE Note.4		Blank type: 110 ~ 295VAC 156 ~ 417VDC; E type: 180 ~ 295VAC 254~ 417VDC				
	FREQUENCY RANGE		47 ~ 63Hz				
		Blank type	PF≫0.97/115VAC,PF≫0.95/230VAC,PF>0.9/277VAC(at full load)(Please refer to "Power Factor Characteristic" curve)				
		E type	PF ≥ 0.95/230VAC,PF ≥ 0.9/277VAC (at full load)(Please refer to "Power Factor Characteristic" curve)				
		Blank type	THD< 20% when output loading≧60% at 115VAC/230VAC input and output loading≧75% at 277VAC input				
	DISTORTION	E type	THD< 20% when output loa	ading≧60% at 230VAC input	and output loading≧75% at 2	277VAC input	
	EFFICIENCY (Typ.)	Blank type	87%	86%	86%	85%	
		E type	86%	85%	85%	82%	
	AC CURRENT		Blank type: 0.3A/115VAC				
	INRUSH CURRENT(Typ.)		COLD START 15A(twidth=50µs measured at 50% Ipeak) at 230VAC				
	MAX. No. of PSUs on 16A CIRCUIT BREAKER		80 units (circuit breaker of type B) / 80 units (circuit breaker of type C) at 230VAC				
	LEAKAGE CURRENT		0.25mA / 240VAC				
PROTECTION	SHORT CIRCUIT	Г	Hiccup mode, recovers automatically after fault condition is removed.				
ENVIRONMENT	WORKING TEMP.		-30 ~ +45°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 STANDARDS		UL8750, CSA C22.2 No. 250.13-12(for Blank type only); ENEC EN61347-1, EN61347-2-13, EN62384, GB19510.14, GB19510.1(for E type only), EAC TP TC 004, IP30 approved				
SAFETY & EMC	WITHSTAND VOLTAGE		I/P-O/P:3.75KVAC				
			I/P-O/P:100M Ohms/500VDC / 25°C/ 70%RH				
	EMC EMISSION		Compliance to EN55015, GB17743, GB17625.1(for E type only),EN61000-3-2 Class C(≥60% load);EN61000-3-3,EAC TP TC 020				
	EMC IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8,11;EN61547, light industry level, criteria B(surge 2KV),EAC TP TC 020				
OTHERS	MTBF		808.162Khrs min. MIL-HDBK-217F (25°C)				
	DIMENSION		145*38*22mm (L*W*H)				
	PACKING		0.126Kg;60pcs/8.6 Kg/0.48CUFT				
NOTE	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. Please see "AC input voltage drop vs. output current characteristics" table. 4. Derating may be needed under low input voltage, please check the static characteristic for more details. 5. 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. 6. 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. 7. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.						

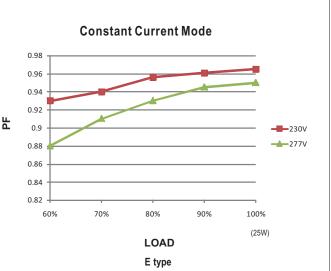




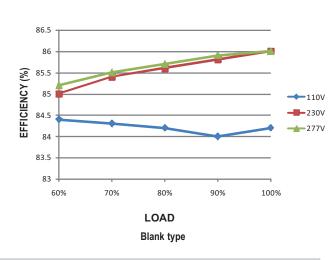


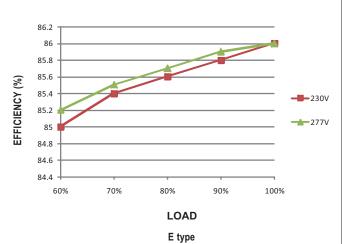






### ■ EFFICIENCY vs LOAD (500mA Model)





### ■ AC input voltage drop vs. output current characteristics

AC input drop	10%	8%	5%	3%
lo drop	<16%	<12%	<8%	<7%

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

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