



■ Features :

- 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
- No load power consumption <0.5W
- High reliability, low cost
- Suitable for LED lighting and moving sign applications
- 2 years warranty

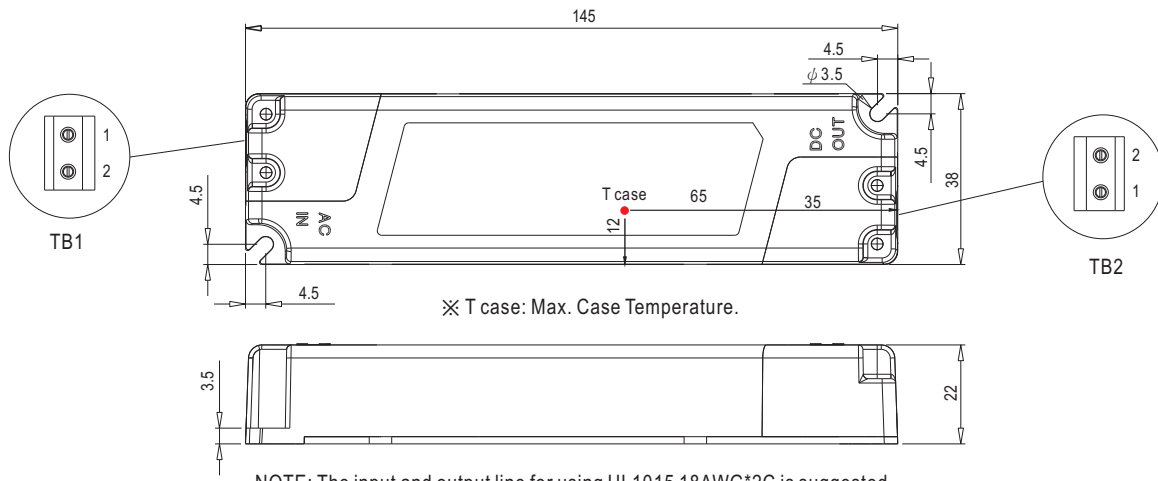


SPECIFICATION

MODEL	PLM-25E-350	PLM-25E-500	PLM-25E-700	PLM-25E-1050	
OUTPUT	LED OPERATION VOLTAGE Note.5	42 ~ 72V	30 ~ 50V	21 ~ 36V	14 ~ 24V
	RATED CURRENT	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	9Vp-p	7.5Vp-p	5.4Vp-p	3.6Vp-p
	CURRENT ACCURACY Note.3	±5.0%			
SETUP TIME	500ms / 230VAC at full load				
INPUT	VOLTAGE RANGE Note.4	180 ~ 295VAC	254~ 416VDC		
	FREQUENCY RANGE	47 ~ 63Hz			
	POWER FACTOR	PF ≥ 0.95/230VAC, PF ≥ 0.9/277VAC (at full load)(Please refer to "Power Factor Characteristic" curve)			
	EFFICIENCY(Typ.)	86%	85%	85%	82%
	AC CURRENT	0.15A/230VAC 0.12A/277VAC			
	INRUSH CURRENT(Typ.)	COLD START 15A(twidth=50µs measured at 50% Ipeak) at 230VAC			
LEAKAGE CURRENT	0.25mA / 240VAC				
PROTECTION	SHORT CIRCUIT	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 & EMC	SAFETY STANDARDS	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; 60 pcs / 8.6Kg / 0.48CUFT			
NOTE	<ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</li> <li>3. Please see "AC input voltage drop vs. output current characteristics" table.</li> <li>4. Derating may be needed under low input voltage, please check the static characteristic for more details.</li> <li>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.</li> <li>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.</li> <li>7. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.</li> </ol>				

**Mechanical Specification**

Case No. PLM-25 Unit: mm



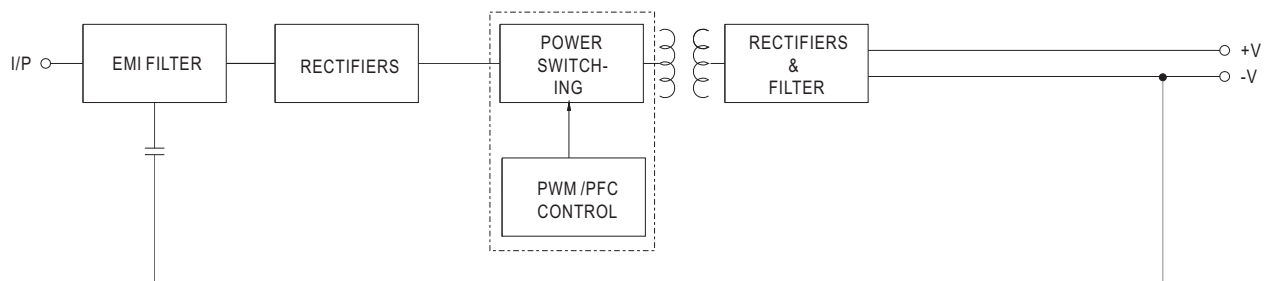
Terminal Pin No. Assignment (TB1):  
SWITCHLAB MWX201-75002EB (GRAY)

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

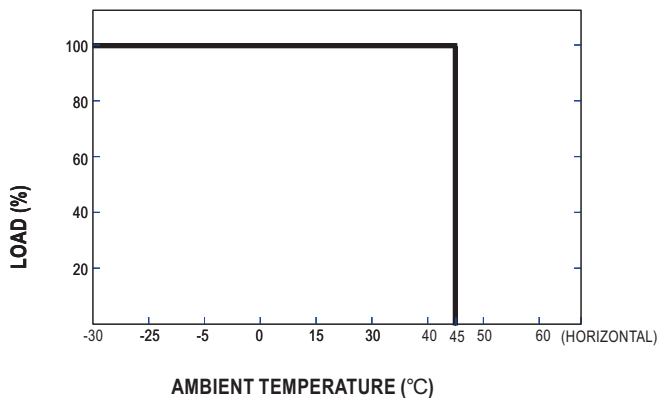
Terminal Pin No. Assignment (TB2):  
SWITCHLAB MWX201-75002B (BLUE)

Pin No.	Assignment
1	+V
2	-V

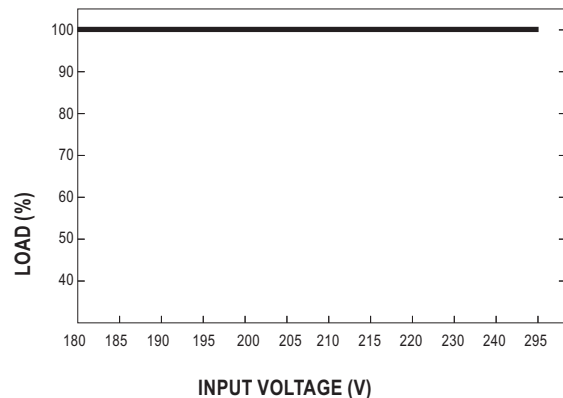
**Block Diagram**



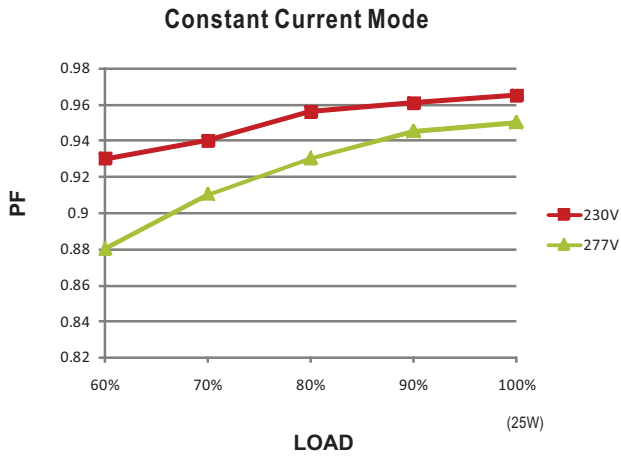
**Derating Curve**



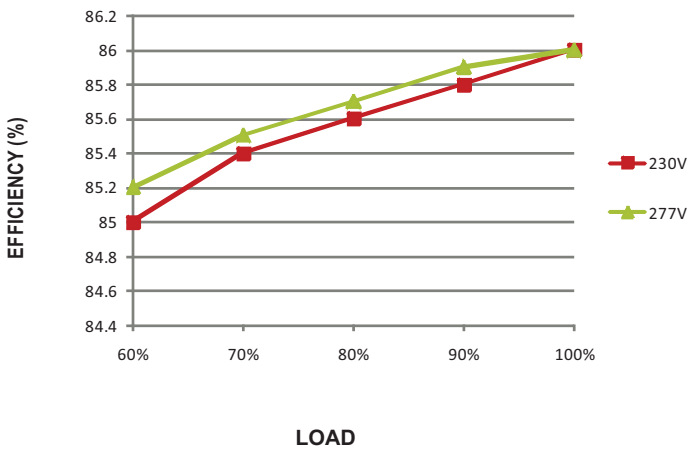
**Static Characteristics**



■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (500mA Model)



■ AC input voltage drop vs. output current characteristics

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

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