



■ Features :

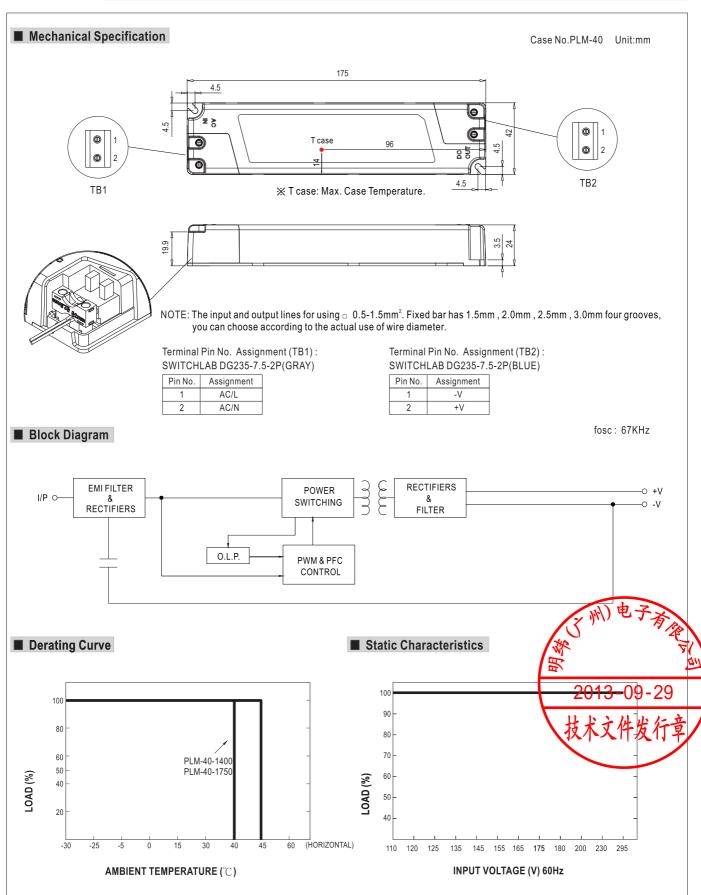
- Universal AC input / Full range (up to 295VAC)
- Three-step analog dimming
- Built-in active PFC function
- Constant current design
- Protections: Short circuit / Over temperature
- · Cooling by free air convection
- Fully isolated plastic case
- \bullet Class $\scriptstyle\rm II$ power unit, no FG
- Suitable for indoor LED lighting applications
- 100% full load burn-in test
- No load power consumption <0.5W
- Low cost
- High reliability
- 2 years warranty

SPECIFICATION



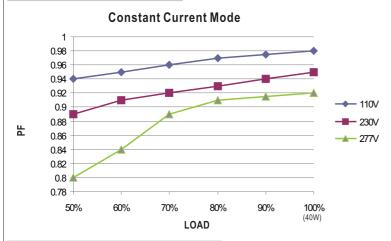
MODEL		PLM-40-350	PLM-40-500	PLM-40-700	PLM-40-1050	PLM-40-1400	PLM-40-1750			
ОИТРИТ	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA	1750mA			
	OPERATING VOLTAGE RANGE Note.5	53 ~ 105V	40 ~ 80V	29 ~ 57V	19 ~ 38V	15 ~ 29V	12 ~ 23V			
	CURRENT ACCURACY Note.3									
	RATED POWER	36.75W	40W	38.5W	39.9W	40.6W	40.25W			
	RIPPLE & NOISE (max.) Note.2	10Vp-p	8Vp-p	6Vp-p	4Vp-p	3Vp-p	2.5Vp-p			
	NO LOAD OUTPUT VOLTAGE (max.)	115V	86V	63V	43V	34V	27V			
	SETUP TIME	500ms / 115VAC, 230VAC at full load								
INPUT	VOLTAGE RANGE Note.4	110 ~ 295VAC 156 ~ 416VDC								
	FREQUENCY RANGE	47 ~ 63Hz								
	POWER FACTOR (Typ.)	PF ≥ 0.97/115VAC,PF ≥ 0.95/230VAC,PF>0.9/277VAC(at full load)(Please refer to "Power Factor Characteristic" curve)								
	TOTAL HARMONIC DISTORTION	THD< 20% when output loading≧60% at 115VAC/230VAC input and output loading≧75% at 277VAC input								
	EFFICIENCY (Typ.)	88%	88%	87%	87%	86%	86%			
	AC CURRENT (Typ.)	0.5A/115VAC 0.3A/230VAC 0.25A/277VAC								
	INRUSH CURRENT(Typ.)	COLD START 15A(twidth=75μs measured at 50% Ipeak) at 230VAC								
	LEAKAGE CURRENT	<0.5mA/240VAC								
PROTECTION	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.								
	OVER TEMPERATURE	115℃±5℃ (TSW1)								
	OVER TENT ERATORE	Protection type: Hiccup mode, recovers automatically after temperature goes down.								
ENVIRONMENT	WORKING TEMP.	-30 ~ +45°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 50°C)								
	VIBRATION	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes								
SAFETY & EMC	SAFETY STANDARDS	UI8750, CSA C22.2 No. 250.13-12, ENEC EN61347-1, EN61347-2-13, EN62384 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	822.7Khrs min. MIL-HDBK-217F (25°C)								
	DIMENSION	175*42*24mm (L*W*H)								
	PACKING	0.175Kg; 60pcs/11.5kg/0.68CUFT								
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 50% ~100% rated output voltage. This is the suitable operation region for LED related applications, but pleas 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. 									





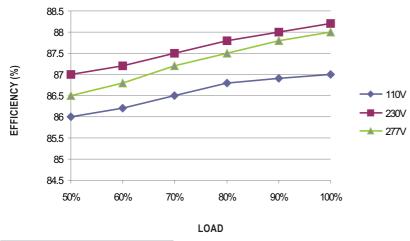


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (PLM-40-350)

PLM-40 series possess superior working efficiency that up to 88% can be reached in field applications.

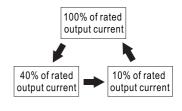




■ Three-step analog dimming

3-level analog dimming control using a wall switch

	STEP 1	STEP 2	STEP 3	
three-step analog dimming	Switch turn ON	Switch turn OFF Less than 2.5 seconds Switch turn ON	Switch turn OFF Less than 2.5 seconds Switch turn ON	
percentage of rated current	100%	40%	10%	



Switch OFF time is less than 2.5 seconds switch ON, Dimming repeated cycle diagram

NOTE: if the OFF time is longer than 2.5 seconds, once switch on again, PLM-40 will provide 100% of rated output current

■ AC input voltage drop vs. output current characteristics

AC input drop	10%	8%	5%	3%
lo drop	<18%	<13%	<8%	<6%

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