



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
- IP30 design
- Class II power unit, no FG
- Suitable for indoor LED lighting applications
- 100% full load burn-in test
- Low cost
- High reliability
- 2 years warranty

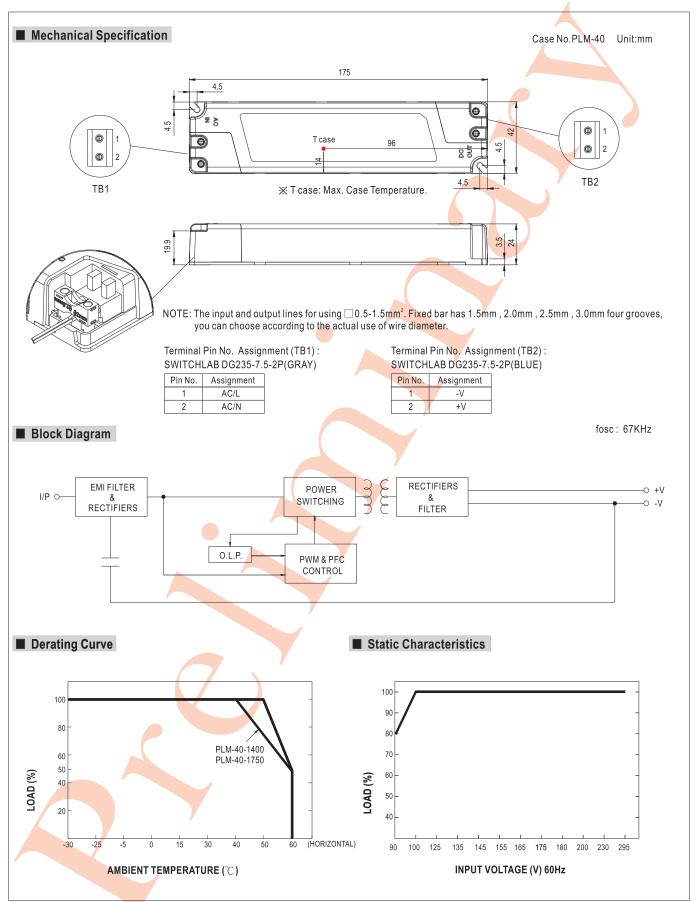


MODEL		PLM-40-350	PLM-40-500	PLM-40-700	PLM-40-1050	PLM-40-1400	PLM-40-1750	
ОИТРИТ	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA	1750mA	
	OPERATING VOLTAGE RANGE Note.4	53 ~ 105V	40 ~ 80V	28 ~ 55V	19 ~ 38V	15 ~ 29V	12 ~ 23V	
	CURRENT RANGE	0 ~ 350mA	0 ~ 500mA	0 ~ 700mA	0 ~ 1050mA	0 ~ 1400mA	0 ~ 1750mA	
	CURRENT ACCURACY	±5.0%						
	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.)	112V	86V	60V	43V	33V	27V	
	SETUP TIME	500ms / 115VAC, 230VAC at full load						
INPUT	VOLTAGE RANGE Note.3	90 ~ 295VAC 127 ~ 417VDC						
	FREQUENCY RANGE	47 ~ 63Hz						
	POWER FACTOR (Typ.)	PF ≥ 0.97/115VAC,	PF ≥ 0. <mark>95</mark> /230VAC,F	F>0.9/277VAC(at full	load)(Please refer to "F	Power Factor Characte	eristic" curve)	
	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	100℃±10℃ (TSW1)						
	OVER TEMPERATURE	Protection type : Hiccup mode, recovers automatically after temperature goes down.						
ENVIRONMENT	WORKING TEMP.	-30 ~ +60 °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	UL8750, CSA C22.2 No. 250.13-12 (for PLM-40-1400/1750), 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	175*42*24mm (L*W*H)						
	PACKING	Kg						
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. 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 contraction of the contraction of							

- complete installation, the final equipment manufacturers must re-qualify EMC Directive on the complete installation again.

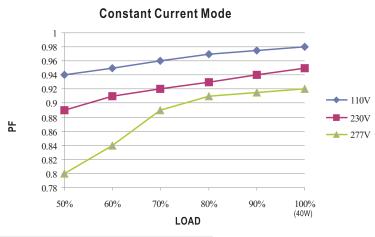
 6. Direct connecting to LEDs is suggested, but is not suitable for using additional drivers.





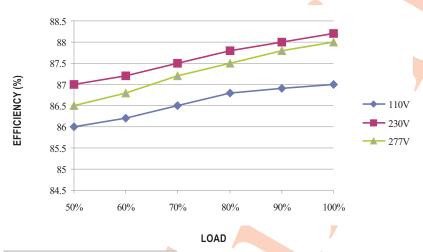


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (PLM-40-350)

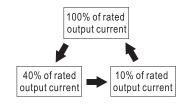
PLM-40 series possess superior working efficiency that up to 88% can be reached in field applications.



■ 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