



Features:

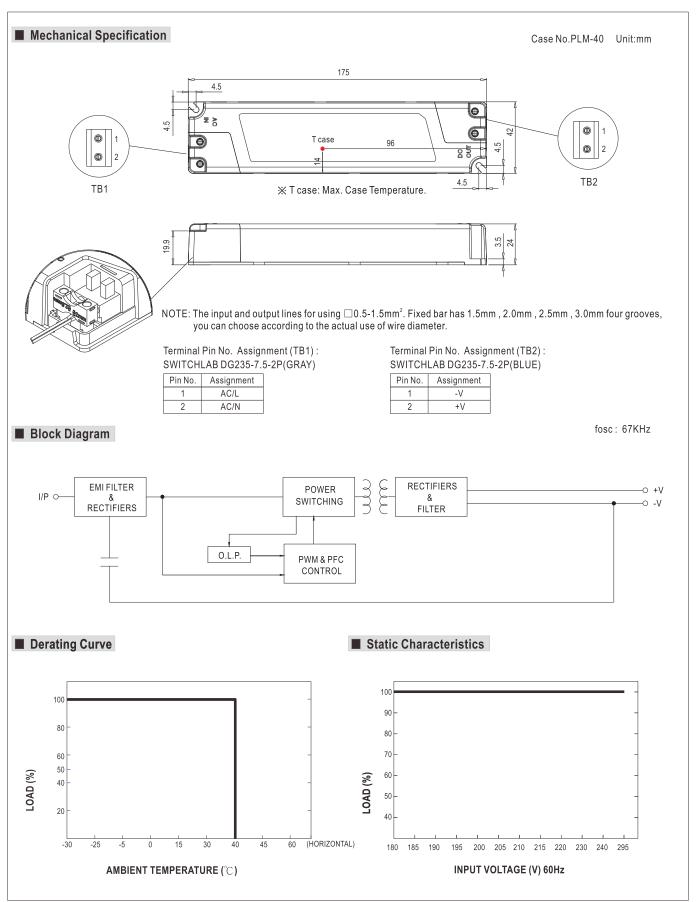
- Three-step analog dimming
- Built-in active PFC function
- Constant current design
- Protections: Short circuit / Over temperature
- Cooling by free air convection
- Fully isolated plastic case
- Class II power unit, no FG
- Suitable for indoor LED lighting applications
- 100% full load burn-in test
- No load power consumption <0.5W
- Low cost
- High reliability
- 2 years warranty

SPECIFICATION



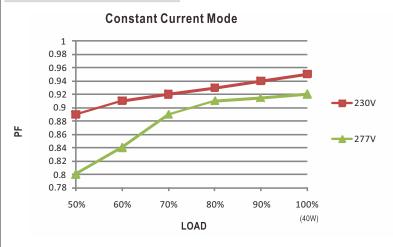
MODEL		PLM-40E-350	PLM-40E-500	PLM-40E-700	PLM-40E-1050	PLM-40E-1400	PLM-40E-1750		
ОИТРИТ	RATED CURRENT	350mA	500mA	700mA	1050mA	1400mA	1750mA		
	OPERATING VOLTAGE RANGE Note.5	53 ~ 105V	40 ~ 80V	29 ~ 57V	19 ~ 38V	15 ~ 29V	12 ~ 23V		
	CURRENT ACCURACY Note.3	1 ±5.0%							
	RATED POWER	36.75W	40W	38.5W	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.)	115V	86V	63V	43V	34V	27V		
	SETUP TIME	500ms / 230VAC at full load							
INPUT	VOLTAGE RANGE Note.4	180 ~ 295VAC 254 ~ 416VDC							
	FREQUENCY RANGE	47 ~ 63Hz							
	POWER FACTOR (Typ.)	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 230VAC input and output loading≧75% at 277VAC input							
	EFFICIENCY (Typ.)	88%	88%	87%	87%	86%	86%		
	AC CURRENT (Typ.)	0.3A/230VAC							
	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°C ±5°C (TSW1)							
	WORKING TEMP	Protection type: Hiccup mode, recovers automatically after temperature goes down. -30 ~ +40°C (Refer to "Derating Curve")							
ENVIRONMENT	WORKING TEMP.	20 ~ 95% RH non-condensing							
	WORKING HUMIDITY STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT								
	VIBRATION	±0.03%/℃ (0 ~ 50℃) 10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes							
	SAFETY STANDARDS	ENEC EN61347-1, EN61347-2-13, EN62384 approved							
SAFETY & EMC	WITHSTAND VOLTAGE								
	ISOLATION RESISTANCE	I/P-0/P:3.75KVAC							
	EMC EMISSION	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH							
		Compliance to EN55015, EN61000-3-2 Class C (≥50% load) ; EN61000-3-3 Compliance to EN61000-4-2,3,4,5,6,8,11, EN61547, light industry level, criteria B (Surge 2KV)							
	MTBF	822.7Khrs min. MIL-HDBK-217F (25°C)							
OTHERS	DIMENSION	822./Knrs min. MiL-HDBK-21/F (25 C) 175*42*24mm (L*W*H)							
	PACKING	0.175Kg; 60pcs/11.5kg/0.68CUFT							
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 50% ~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.								





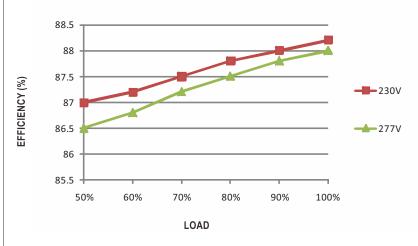


■ Power Factor Characteristic



■ EFFICIENCY vs LOAD (PLM-40E-350)

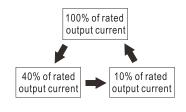
 $PLM-40E\ series\ possess\ superior\ working\ efficiency\ that\ up\ to\ 88\%\ can\ be\ reached\ in\ field\ applications.$



■ 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-40E 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