

### 60W Single Output LED Power Supply

## PLP-60 series



- Features :
- Universal AC input / Full range
- Protections: Short circuit / Over current / Over voltage
- Built-in active PFC function
- Cooling by free air convection
- \* Class 2 power unit
- Output current level adjustable
- 100% full load burn-in test
- High reliability
- Suitable for built-in applications of LED lighting
- 2 years warranty

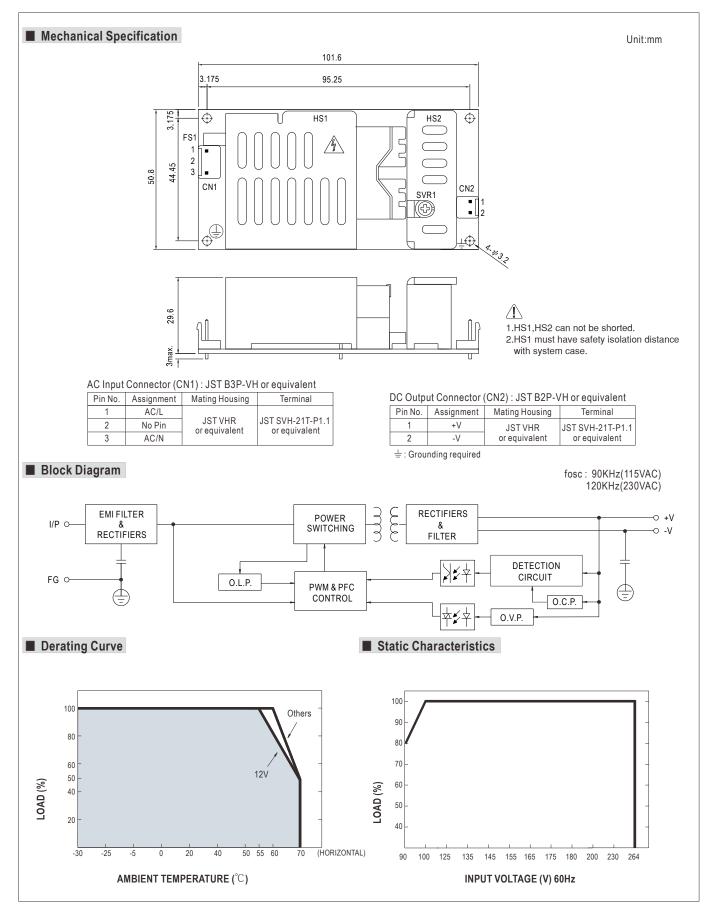


#### **SPECIFICATION**

DC VOLTAGE			
DOTOLINOL	12V	24V	48V
CONSTANT CURRENT REGION Note.5	9 ~ 12V	18 ~ 24V	36 ~ 48V
RATED CURRENT	5A	2.5A	1.3A
CURRENT RANGE	0 ~ 5A	0 ~ 2.5A	0~1.3A
RATED POWER	60W	60W	62.4W
RIPPLE & NOISE (max.) Note.2	4.5Vp-p	4.5Vp-p	4.8Vp-p
CURRENT ADJ. RANGE	3.75 ~ 5A	1.875 ~ 2.5A	0.975 ~ 1.3A
VOLTAGE TOLERANCE Note.3	±3.0% ±5.0%		
LINE REGULATION			
LOAD REGULATION			
SETUP TIME	500ms / 230VAC 1200ms / 115VAC at full load		
VOLTAGE RANGE Note.4			
FREQUENCY RANGE	47 ~ 63Hz PF≧0.9 at 75 ~ 100% load, 115VAC / 230VAC		
POWER FACTOR (Typ.)			
EFFICIENCY (Typ.)	84%	88%	89%
AC CURRENT (Typ.)	0.8A/115VAC 0.4A/230VAC		
	COLD START 35A(twidth=55µs measured at 50% lpeak) at 230VAC		
LEAKAGE CURRENT	<0.75mA / 240VAC		
OVER CURRENT Note.5	100 ~ 110%		
	Protection type : Constant current limiting, recovers automatically after fault condition is removed		
SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed		
OVER VOLTAGE			57 ~ 63V
	-40 ~ +80°C, 10 ~ 95% RH		
	UL8750, TUV EN61347-1, EN61347-2-13, CSA C22.2 No. 250.0-08(except for 48V) approved ; design refer to UL60950-1		
	101.6*50.8*29.6mm (L*W*H)		
	0.1 0	point roted load and $25^{\circ}$ of ambient to	amporatura
<ol> <li>Ripple &amp; noise are measure</li> <li>Tolerance : includes set up</li> <li>Derating may be needed ur</li> <li>Please refer to "DRIVING M</li> <li>Heat sink HS1,HS2 can not</li> <li>Heat sink HS1 must have s</li> <li>The power supply is consid complete installation, the fin</li> <li>Direct connecting to LEDs is</li> <li>To fulfill requirements of the</li> </ol>	d at 20MHz of bandwidth by using a 12" tolerance, line regulation and load regula der low input voltage. Please check the IETHODS OF LED MODULE". be shorted. afety isolation distance with system case ered as a component that will be operate al equipment manufacturers must re-qua s suggested, but is not suitable for using	twisted pair-wire terminated with a 0.1 tion. static characteristics for more details. d in combination with final equipment. ify EMC Directive on the complete ins additional drivers.	uf & 47uf parallel capacitor. Since EMC performance will be affected by the tallation again.
	RATED POWER RIPPLE & NOISE (max.) Note.2 CURRENT ADJ. RANGE VOLTAGE TOLERANCE Note.3 LINE REGULATION LOAD REGULATION SETUP TIME VOLTAGE RANGE Note.4 FREQUENCY RANGE POWER FACTOR (Typ.) EFFICIENCY (Typ.) AC CURRENT (Typ.) AC CURRENT (Typ.) INRUSH CURRENT (max.) LEAKAGE CURRENT OVER CURRENT Note.5 SHORT CIRCUIT OVER VOLTAGE WORKING TEMP. WORKING HUMIDITY STORAGE TEMP. HUMIDITY TEMP. COEFFICIENT VIBRATION SAFETY STANDARDS WITHSTAND VOLTAGE ISOLATION RESISTANCE EMC EMISSION EMC IMMUNITY MTBF DIMENSION PACKING 1. All parameters NOT special 2. Ripple & noise are measure 3. Tolerance : includes set up 4. Derating may be needed ur 5. Please refer to "DRIVING M 6. Heat sink HS1, HS2 can not 7. Heat sink HS1	RATED POWER       60W         RIPPLE & NOISE (max.) Note.2       4.5Vp-p         CURRENT ADJ. RANGE       3.75 ~ 5A         VOLTAGE TOLERANCE Note.3       ±10%         LINE REGULATION       ±5.0%         SETUP TIME       500ms / 230VAC         VOLTAGE RANGE       Note.4         90 ~ 264VAC       127 ~ 370VDC         FREQUENCY RANGE       47 ~ 63Hz         POWER FACTOR (Typ.)       PF ≥0.9 at 75 ~ 100% load, 115VAC / 230         EFFICIENCY (Typ.)       84%         AC CURRENT (Typ.)       0.8A/115VAC         INRUSH CURRENT (max.)       COLD START 35A(twidth=55µs measured at         LEAKAGE CURRENT       <0.75mA / 240VAC	RATED POWER         60W         60W           RIPPLE & NOISE (max.) Note.2         4.5Vp-p         4.5Vp-p           CURRENT ADJ. RANGE         3.75 - 5A         1.875 - 2.5A           VOLTAGE TOLERANCE Note.3         ±10%           LINE REGULATION         ±3.0%           LOAD REGULATION         ±5.0%           SETUP TIME         500ms / 230VAC         120ms / 115VAC at full load           VOLTAGE RANGE         Note.4         90 - 264VAC         127 - 370VDC           FREQUENCY RANGE         47 - 63Hz         POWER FACTOR (Typ.)         PF≧0.9 at 75 - 100% load, 115VAC / 230VAC           POWER FACTOR (Typ.)         0.8A/115VAC         0.4A/230VAC         88%           AC CURRENT (Typ.)         0.8A/115VAC         0.4A/230VAC         100 - 110%           IRUSH CURRENT (max.)         COLD START 35A(twidth=55µs measured at 50% lpeak) at 230VAC         164 - 100%           OVER CURRENT         Note.5         100 - 110%         Protection type : Constant current limiting, recovers automatically after fault condition is removed           SHORT CIRCUIT         Hiccup mode, recovers automatically after fault condition is removed         15 - 18V         28 - 35V           OVER VOLTAGE         10 - 10%         Protection type : Shut down o/p voltage, re-power on to recover         WORKING HUMIDITY         20 - 95% RH non-condensin

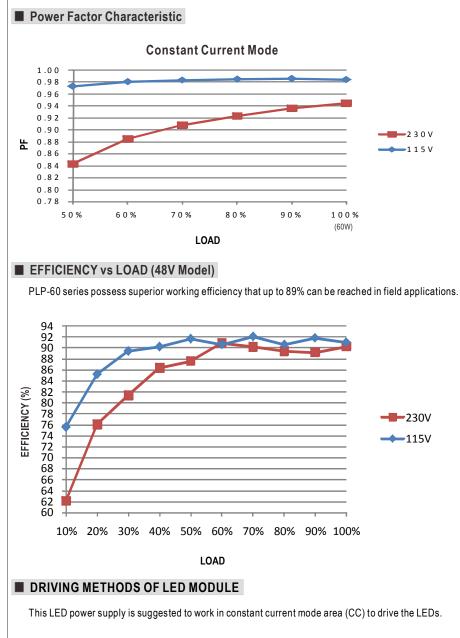


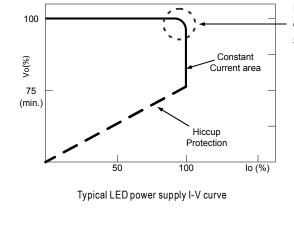
# PLP-60 series





### PLP-60 series





In the constant current region, the highest voltage at the output of the driver depends on the configuration of the end systems.

Should there be any compatibility issues, please contact MEAN WELL.