

Наличие и актуальные цены на

**PLN-60-48** 

https://www.mean-well.ru/store/PLN-60-48/





- Universal AC input / Full range (up to 295VAC)
- High efficiency 89%
- Protections: Short circuit / Over current / Over voltage / Over temperature
- Cooling by free air convection
- Built-in constant current limiting circuit with adjustable OCP level
- Fully isolated plastic case with IP64 level
- Built-in active PFC function
- Pass LPS
- Class 2 power unit
- 100% full load burn-in test
- · High reliability
- Suitable for LED lighting and moving sign applications (Note.2)

PLN-60-24

- Suitable for dry / damp locations
- Compliance to worldwide safety regulations for lighting
- MW Search: https://www.meanwell.com/serviceGTIN.aspx 2 years warranty

PLN-60-15



**■** GTIN CODE

MODEL



PLN-60-12





PLN-60-27



PLN-60-36



PLN-60-48

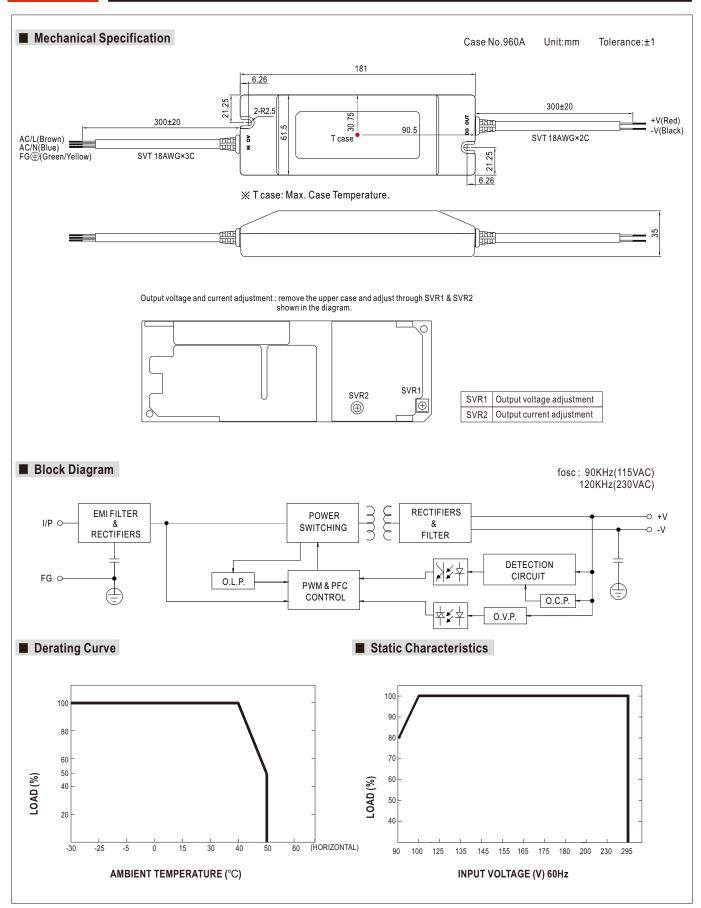
User's Manual

	SELV LF3 IF04 IF0	(for 48V only) C 7 US (except for 48V)	CDCC
SPECIFICATION			

PLN-60-20

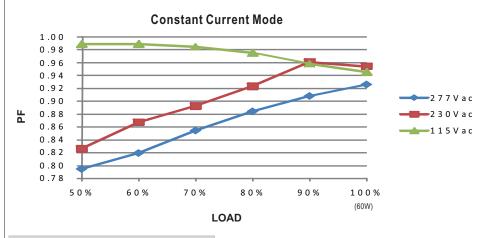
		. 211 00 12	1 211 00 10	. 211 00 20	1 211 00 24	1 211 00 21	1 211 00 00	1 211 00 40			
	DC VOLTAGE	12V	15V	20V	24V	27V	36V	48V			
	CONSTANT CURRENT REGION Note.6	8.4 ~ 12V	10.5 ~15V	14 ~ 20V	16.8 ~24V	18.9 ~27V	25.2 ~ 36V	33.6 ~ 48V			
	RATED CURRENT	5A	4A	3A	2.5A	2.3A	1.7A	1.3A			
	CURRENT RANGE	0 ~ 5A	0 ~ 4A	0 ~ 3A	0 ~ 2.5A	0 ~ 2.3A	0 ~ 1.7A	0 ~ 1.3A			
	RATED POWER	60W	60W	60W	60W	62.1W	61.2W	62.4W			
	RIPPLE & NOISE (max.) Note.2	2Vp-p	2.4Vp-p	1.8Vp-p	2.7Vp-p	2.7Vp-p	3.6Vp-p	4.6Vp-p			
OUTPUT	VOLTAGE ADJ. RANGE Note.5	11.5 ~ 13V	14.5 ~ 16.2V	19.5 ~ 22V	24 ~ 26V	25 ~ 30V	32.5 ~ 39V	43.6 ~ 51.8V			
		Can be adjusted by internal potentiometer SVR1									
	CURRENT ADJ. RANGE Note.5	5 3% ~ -25%. Can be adjusted by internal potentiometer SVR2									
	VOLTAGE TOLERANCE Note.3										
	LINE REGULATION	±3.0%									
	LOAD REGULATION	±5.0%									
	SETUP TIME	500ms / 230VAC 3000ms / 115VAC at full load									
		4 90 ~ 295VAC 127 ~ 417VDC									
	FREQUENCY RANGE	4 90 ~ 295VAC 127 ~ 417VDC 47 ~ 63Hz									
	POWER FACTOR (Typ.)	47 ~ 63Hz PF>0.92/115VAC, PF>0.9/230VAC, PF>0.9/277VAC at full load (Please refer to "Power Factor Characteristic" curve)									
	TOTAL HARMONIC DISTORTION				,		0% at 277VAC inpu	,			
INPUT		85%	86%	87.5%	87%	88%	89%	89%			
INFUI	AC CURRENT (Typ.)	0.8A/115VAC	0.4A/230VAC	0.3A/277VAC		00 %	0370	0970			
	AC CURRENT (Typ.)										
	INRUSH CURRENT (Typ.)	COLD START 35A(twidth=45µs measured at 50% Ipeak) at 230VAC									
	MAX. No. of PSUs on 16A CIRCUIT BREAKER	32 units (circuit breaker of type B) / 32 units (circuit breaker of type C) at 230VAC									
	LEAKAGE CURRENT	<0.75mA / 240VAC									
	OVER CURRENT	95 ~ 110%									
		Protection type: Constant current limiting, recovers automatically after fault condition is removed									
	SHORT CIRCUIT	Hiccup mode, recovers automatically after fault condition is removed.									
PROTECTION		13.8 ~ 16V	17.5 ~ 21V	23 ~ 28V	28 ~ 32V	31 ~ 35V	41 ~ 46V	54 ~ 60V			
	OVER VOLTAGE	Protection type :	Shut down o/p volt	age, re-power or	to recover	•		'			
	OVER TEMPERATURE	Shut down o/p voltage, recovers automatically after temperature goes down									
	WORKING TEMP.		er to "Derating Cur								
	WORKING HUMIDITY	20 ~ 95% RH non-condensing									
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +80°C, 10 ~									
V/IIIIEII	TEMP. COEFFICIENT	±0.03%/°C (0 ~ 5									
	VIBRATION	,	,	od for 72min on	ch along Y V 7 av	196					
	SAFETY STANDARDS	10 ~ 500Hz, 2G 12min./1cycle, period for 72min. each along X, Y, Z axes  UL879, UL1310, UL8750, CSA C22.2 No. 207-M89(except for 48V), TUV BS EN/EN61347-1, BS EN/EN61347-2-13 independent									
CAEETVO		CAN/CSA C22.2 No. 223-M91 (except for 48V), CSA C22.2 No. 250.0-08(except for 48V), EAC TPTC 004, IP64 approved; design refer to UL60950-1  I/P-O/P:3.75KVAC I/P-FG:2KVAC O/P-FG:0.5KVAC									
SAFETY &	WITHSTAND VOLTAGE				OKVAC						
EMC	ISOLATION RESISTANCE		ms / 500VDC / 25°								
	EMC EMISSION	Compliance to BS EN/EN55015, BS EN/EN61000-3-2 Class C (≧75% load) ; BS EN/EN61000-3-3; EAC TP TC 020									
	EMC IMMUNITY	Compliance to BS	3 EN/EN61000-4-2	2,3,4,5,6,8,11, BS	S EN/EN55024,BS	EN/EN61547, ligh	nt industry level, EAC	TP TC 020			
	MTBF	3445.2K hrs mir	n. Telcordia SF	R-332 (Bellcore)	; 497.9Khrs min	n. MIL-HDBK-2	17F (25°C)				
OTHERS	DIMENSION	181*61.5*35mm (		· · · · · · · · · · · · · · · · · · ·							
	PACKING	0.5Kg; 24pcs/13h	Kg/0.87CUFT								
NOTE	1. All parameters NOT specially 2. Ripple & noise are measured 3. Tolerance : includes set up tol 4. Derating may be needed unde 5. Output voltage can be adjuste 6. Please refer to "DRIVING ME 7. The power supply is considere complete installation, the final (as available on https://www.m 8. Direct connecting to LEDs is s 9. To fulfill requirements of the la connected to the mains. 10.The ambient temperature der 11. For any application note and https://www.meanwell.com/U 12. PLN-60-12 is used for any lic  13. The ambient temperature der 14. PLN-60-12 is used for any lic  15. The ambient temperature der 16. The ambient temperature der 17. For any application note and https://www.meanwell.com/U 17. PLN-60-12 is used for any lic  18. The ambient temperature der 19. The ambient temperature	at 20MHz of bandw erance, line regulater low input voltage at through the SVR THODS OF LED Med as a component equipment manufel com/Uplosuggested, but is not test ErP regulation valing of 3.5°C/1000 rating of 3.5°C/1000	width by using a 12 ition and load regula it. Please check the it on the PCB; limi MODULE". I that will be operate currers must re-quad/PDF/EM] stater of suitable for using for lighting fixtures, our with fanless moderate installation cau. N.pdf	"twisted pair-wire ation. static characteris it of output constated in combination alify EMC Direction ment. en.pdf) additional drivers this LED power: dels and of 5°C/1\tion, please refer	terminated with a litics for more details int current level car with final equipmere on the complete is supply can only be 200m with fan mod our user manual b	O.1uf & 47uf paralle  n be adjusted through  nt. Since EMC perfinistallation again.  used behind a swittlels for operating allefore using.	gh the SVR2 on the formance will be affect tch without permaner titude higher than 200	cted by the			





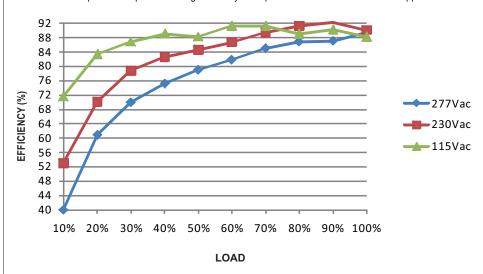


## ■ Power Factor Characteristic



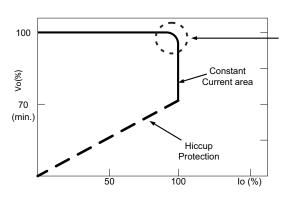
## ■ EFFICIENCY vs LOAD (48V Model)

PLN-60 series possess superior working efficiency that up to 89% can be reached in field applications.



## ■ DRIVING METHODS OF LED MODULE

This LED power supply is suggested to work in constant current mode area (CC) to drive the LEDs.



Typical LED power supply I-V curve

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.