



### Features

- Universal AC input (up to 295VAC) / Full range
- Fully isolated plastic case with IP64 level
- Built-in active PFC function, PF>0.9 for 75% of load or higher
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting circuit
- User adjustable output voltage (except for PLN-20) and constant current level
- UL1310 Class 2 power unit
- Pass LPS
- Cooling by free air convection
- 100% full load burn-in test
- Suitable for LED lighting and moving sign applications
- 2 years warranty

### General Specification (Please refer to [www.meanwell.com](http://www.meanwell.com) for detail spec.)

Model No.	PLN-20 <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">NEW</span>	PLN-30	PLN-45	PLN-60	PLN-100
AC input voltage range	90~277VAC	90~295VAC; 127~417VDC			
AC inrush current (max.)	Cold start, 40A at 230VAC				
DC adjustment range	None	95%~108% rated output voltage adjustable by internal potential meter			85%~100% rated output voltage
Current adjustment range	75%~100%	75%~103% rated output current adjustable by internal potential meter			
Overload protection	95%~110% constant current limiting, auto-recovery	100%~110% constant current limiting, auto-recovery	95%~110% constant current limiting, auto-recovery	95%~102% constant current limiting, auto-recovery	
Over voltage protection	105%~142% rated output voltage	110%~155% rated output voltage	115%~140% rated output voltage		107%~135% rated output voltage
Setup, rise, hold up time	2300ms(setup time) at full load and 230VAC, <b>no hold up time</b>	1500ms (setup time) at full load and 230VAC, <b>no hold up time</b>			1200ms, 80ms, 60ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3.75kVAC				
Working temperature	-30~+60°C	-30~+50°C (refer to output derating curve)			
Safety standards	UL1310 Class 2, CAN/CSA-C22.2 No.223-M91 (except for 48V & PLN-20), EN61347-1, EN61347-2-13, UL879 (except for PLN-20) approved ; UL8750 approved(except for PLN-30); UL60950-1 and TUV EN60950-1 approved for PLN-100 only				
EMC standards	EN55015, EN55022 Class B(PLN-60/100 only), EN61000-3-2 Class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61547				
Connection	Input	UL rated, 18AWGx2C (32cm)		UL rated, 18AWGx3C (30cm)	UL rated, 18AWGx3C (31cm)
	Output			UL rated, 18AWGx2C (30cm)	UL rated, 18AWGx2C (31cm)
Dimension (LxWxH)(mm)	147x 37x 28	145x 47x 30	181x 61.5x 35	200x 70.5x 35	
Packing	60pcs / 12.8kg	60pcs / 14.2kg	24pcs / 13.0kg	20pcs / 12.5kg	

### PLN-20 Series



Model No.	Output	Tol.	R&N	Effi.
PLN-20-12	12V, 0~1.6A	±10%	2.5V	80.0%
PLN-20-18	18V, 0~1.1A	±10%	3.0V	81.0%
PLN-20-24	24V, 0~0.8A	±10%	3.0V	82.0%
PLN-20-36	36V, 0~0.55A	±10%	3.0V	83.0%
PLN-20-48	48V, 0~0.42A	±10%	3.8V	83.5%

Model No.	Output	Tol.	R&N	Effi.
PLN-45-24	24V, 0~1.9A	±10%	2.7V	86.5%
PLN-45-27	27V, 0~1.7A	±10%	2.7V	86.5%
PLN-45-36	36V, 0~1.25A	±10%	3.6V	87.5%
PLN-45-48	48V, 0~0.95A	±10%	4.6V	87.5%

### PLN-30 Series



Model No.	Output	Tol.	R&N	Effi.
PLN-30-9	9V, 0~3.3A	±10%	2.6V	80.0%
PLN-30-12	12V, 0~2.5A	±10%	2.0V	82.5%
PLN-30-15	15V, 0~2.0A	±10%	2.6V	83.5%
PLN-30-20	20V, 0~1.5A	±10%	2.6V	84.0%
PLN-30-24	24V, 0~1.25A	±10%	2.6V	84.0%
PLN-30-27	27V, 0~1.12A	±10%	2.3V	84.5%
PLN-30-36	36V, 0~0.84A	±10%	4.5V	85.0%
PLN-30-48	48V, 0~0.63A	±10%	3.7V	85.5%

### PLN-60 Series



Model No.	Output	Tol.	R&N	Effi.
PLN-60-12	12V, 0~5.0A	±10%	2.0V	85.0%
PLN-60-15	15V, 0~4.0A	±10%	2.4V	86.0%
PLN-60-20	20V, 0~3.0A	±10%	1.8V	87.5%
PLN-60-24	24V, 0~2.5A	±10%	2.7V	87.0%
PLN-60-27	27V, 0~2.3A	±10%	2.7V	88.0%
PLN-60-36	36V, 0~1.7A	±10%	3.6V	89.0%
PLN-60-48	48V, 0~1.3A	±10%	4.6V	89.0%

### PLN-45 Series



Model No.	Output	Tol.	R&N	Effi.
PLN-45-12	12V, 0~3.8A	±10%	2.0V	83.5%
PLN-45-15	15V, 0~3.0A	±10%	2.4V	85.0%
PLN-45-20	20V, 0~2.3A	±10%	1.8V	86.5%

### PLN-100 Series



Model No.	Output	Tol.	R&N	Effi.
PLN-100-12	12V, 0~5.00A	±3%	150mV	84.5%
PLN-100-15	15V, 0~5.00A	±3%	150mV	86.5%
PLN-100-20	20V, 0~4.80A	±3%	150mV	90.0%
PLN-100-24	24V, 0~4.00A	±3%	150mV	90.0%
PLN-100-27	27V, 0~3.55A	±3%	150mV	90.0%
PLN-100-36	36V, 0~2.65A	±2%	150mV	90.0%
PLN-100-48	48V, 0~2.00A	±2%	200mV	89.0%