



### Power Supply Features

- Universal AC input 90~295VAC
- Fully isolated plastic case with IP64 level protection
- **Built-in active PFC, PF>0.9 for 75% of load or higher**
- Protection: Short circuit / Overload / Over voltage / Over temperature
- Built-in constant current limiting
- User adjustable output voltage (except PLN-20) and constant current level
- UL1310 Class 2 power unit
- UL listed, LPS
- Cooling by free air convection
- 100% full load burn-in test
- **2 year warranty**
- **Suitable for LED lighting and moving sign applications**

**Australian  
Electrical  
Safety  
Approval**

### General Specifications (please refer to [www.procontechology.com.au](http://www.procontechology.com.au) for detailed specs)

Model	PLN-20	PLN-30	PLN-45	PLN-60	PLN-100
AC input voltage range	90~277VAC	90~295VAC; 127~417VDC			
AC inrush current (max.)	Cold start, 35A at 230VAC				Cold start, 40A at 230VAC
DC adjustment range	None	95~108% rated output voltage adjustable by potentiometer			85~100% rated output voltage
Current adjustment range	75~100%	75~103% rated output current adjustable by potentiometer			
Over current 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	500ms (setup time) at full load and 230VAC	500ms (setup time) at full load and 230VAC	500ms (setup time) at full load and 230VAC		500ms, 80ms, 60ms at full load and 230VAC
Withstand	I/P-O/P: 3.75kVAC		I/P-O/P: 3.75kVAC, I/P-FG: 2kVAC, O/P-FG: 0.5kVAC		
Working	-30°C ~ +60°C		-30°C ~ +50°C (refer to output derating curve)		
Safety	TUV EN61347-1, EN61347-2-13, EAC TP TC 004 approved for PLN series; UL8750 approved for PLN-20/45/60, UL879, UL1310 approved for PLN-30/45/60/100				
EMC	EN55015, EN55032 Class B(PLN-100only), EN61000-3-2 Class C, EN61000-3-3, EN61000-4-2,3,4,5,6,8,11, EN61547, EAC TP TC 020				
Connection	Input	UL rated, 18AWGx2C		UL rated, 18AWGx3C	
	Output	UL rated, 18AWGx2C (32cm)		UL rated, 18AWGx2C (30cm)	
Dimensions (LxWxH)	147x37x28mm	145x47x30mm	181x61.5x35mm		200x70.5x35mm
Weight	0.18kg	0.22kg	0.5kg		0.52kg

### PLN-20 Series



Model No.	Output	Tol.	R&N	Eff.
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	Eff.
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	Eff.
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	Eff.
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	Eff.
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	Eff.
PLN-100-12	12V, 0~5.00A	±3%	150mV	83.0%
PLN-100-15	15V, 0~5.00A	±3%	150mV	85.0%
PLN-100-20	20V, 0~4.80A	±3%	150mV	88.5%
PLN-100-24	24V, 0~4.00A	±3%	150mV	88.5%
PLN-100-27	27V, 0~3.55A	±3%	150mV	88.0%
PLN-100-36	36V, 0~2.65A	±2%	150mV	88.0%
PLN-100-48	48V, 0~2.00A	±2%	200mV	88.5%