

# LED Series

30~96W Single Output Class 2 with PFC



## ■ Features

- Universal AC input / Full range
- Fully isolated plastic case with screw terminal style of I/O
- Built-in constant current limiting circuit
- Adjustable output voltage and current level
- Built-in active PFC function, PF>0.9 for 75% of load or higher
- Cooling by free air convection
- UL1310 Class 2 power unit
- Pass LPS
- Protections: Short circuit / Overload / Over voltage / Over temperature
- 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.	PLC-30	PLC-45	PLC-60	PLC-100
AC input voltage range	90~264VAC; 127~370VDC			
AC inrush current (max.)	Cold start, 40A at 230VAC			
DC adjustment range	95%~108% rated output voltage adjustable by internal potential meter			85%~100% rated output voltage
Current adjustment range	75%~103% rated output current adjustable by internal potential meter			75~100% rated output voltage
Overload protection	100%~110% constant current limiting, auto-recovery	95%~110% constant current limiting, auto-recovery		95%~102% constant current limiting, auto-recovery
Over voltage protection	110%~155% rated output voltage	115%~140% rated output voltage		107%~135% rated output voltage
Setup time	1500ms at full load and 230VAC			1200ms at full load and 230VAC
Withstand voltage	I/P-O/P: 3.75kVAC			
Working temperature	-30~+50°C (refer to output derating curve)			
Safety standards	UL1310 Class 2, CAN/CSA-C22.2 No.223-M91 (except for 48V), EN61347-1, EN61347-2-13 approved; UL60950-1, TUV EN60950-1, UL879 (listed in Sign Components Manual – SAM) approved for PLC-100			
EMC standards	EN55015, EN55022 class B (PLC-45/60/100), EN61000-3-2 class C, EN61000-4-2,3,4,5,6,8,11, ENV50204, EN61547			
Connection (Input / Output)	2+2P screw terminal block		3+2P screw terminal block	
Dimension (LxWxH)(mm)	160x 46x 30		181.5x 62x 35	
Packing	0.2kg ; 70pcs / 15kg / 0.96CUFT		0.41kg ; 30pcs / 13.3kg / 0.67CUFT	
				200.5x 70.5x 35
				0.52kg ; 25pcs / 14.0kg / 0.65CUFT

### ■ 30W PLC-30

Model No.	Output	Tol.	R&N	Effi.
PLC-30-9	9V, 0~3.3A	±10%	2.6V	80%
PLC-30-12	12V, 0~2.5A	±10%	2.0V	83%
PLC-30-15	15V, 0~2.0A	±10%	2.6V	84%
PLC-30-20	20V, 0~1.5A	±10%	2.6V	84%
PLC-30-24	24V, 0~1.25A	±10%	2.4V	85%
PLC-30-27	27V, 0~1.12A	±10%	2.3V	85%
PLC-30-36	36V, 0~0.84A	±10%	3.6V	86%
PLC-30-48	48V, 0~0.63A	±10%	3.7V	86%

### ■ 60W PLC-60

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

### ■ 45W PLC-45

Model No.	Output	Tol.	R&N	Effi.
PLC-45-12	12V, 0~3.8A	±10%	2.0V	86.0%
PLC-45-15	15V, 0~3.0A	±10%	2.4V	86.5%
PLC-45-20	20V, 0~2.3A	±10%	1.8V	88.5%
PLC-45-24	24V, 0~1.9A	±10%	2.4V	89.0%
PLC-45-27	27V, 0~1.7A	±10%	2.7V	89.0%
PLC-45-36	36V, 0~1.25A	±10%	3.6V	89.0%
PLC-45-48	48V, 0~0.95A	±10%	4.6V	89.5%

### ■ 96W PLC-100

Model No.	Output	Tol.	R&N	Effi.
PLC-100-12	12V, 0~5.00A	±3%	150mV	86%
PLC-100-15	15V, 0~5.00A	±3%	150mV	88%
PLC-100-20	20V, 0~4.80A	±3%	150mV	90%
PLC-100-24	24V, 0~4.00A	±3%	150mV	90%
PLC-100-27	27V, 0~3.55A	±3%	150mV	90%
PLC-100-36	36V, 0~2.65A	±2%	150mV	90%
PLC-100-48	48V, 0~2.00A	±2%	200mV	89%