

35Watts Single Output LED Driver



Features:

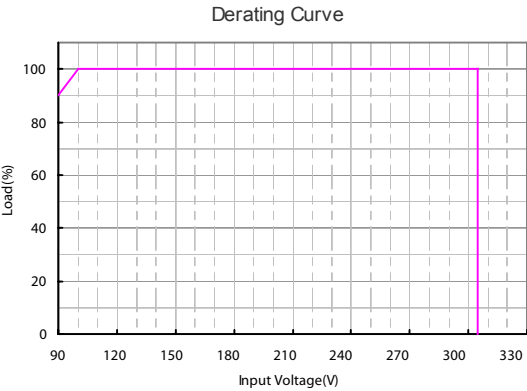
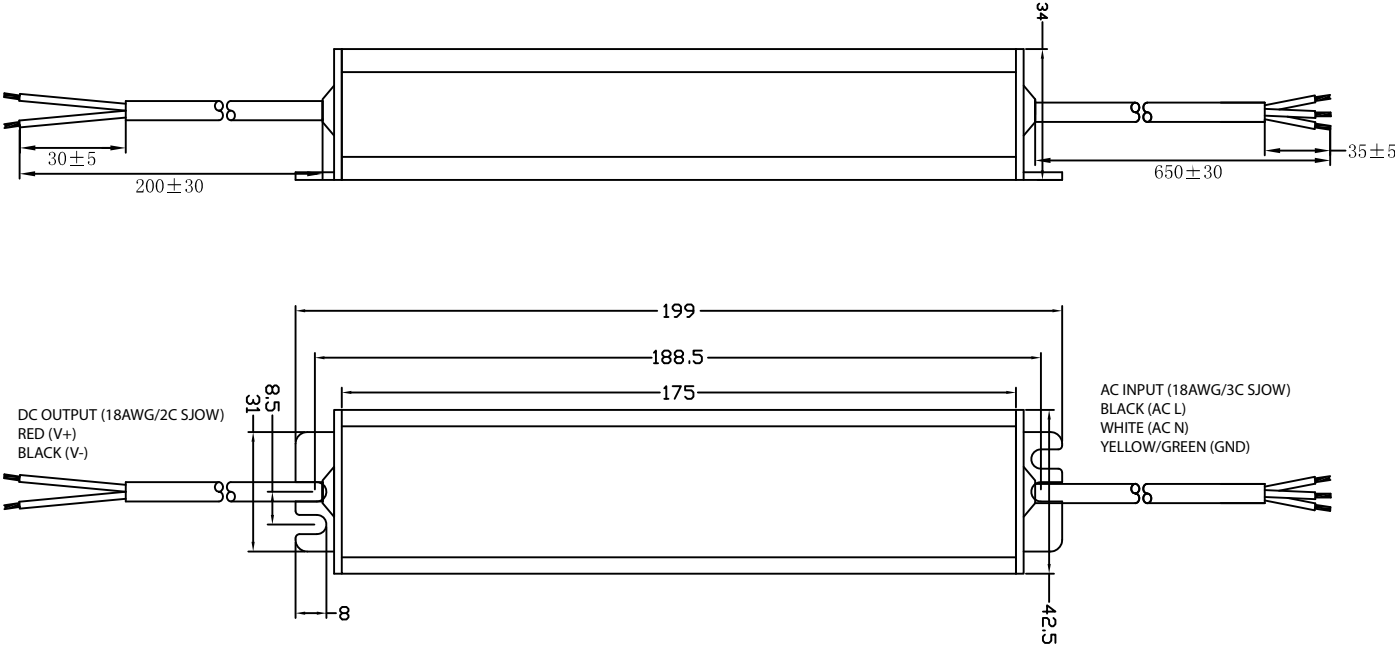
- Constant Current Design
- Universal AC input/ Full Range
- Built-in Active PFC function, PF 0.98 Typical
- High Efficiency (Up to 88%)
- Output Protections: OVP/SCP/OTP
- Lightning Protection
- Class 2 Power Unit (See Note)
- Waterproof (IP67)
- 5 Year Warranty



Model		PLC-035S035	PLC-035S045	PLC-035S070	PLC-035S105	PLC-035S140	PLC-035S175	PLC-035S210	PLC-035S245	PLC-035S290
Output Characteristics										
Rated Current See Note		0.35A (1)	0.45A (1)	0.70A (2)	1.05A (3)	1.40A (3)	1.75A (3)	2.10A (3)	2.45A (3)	2.90A (3)
Voltage Range		33~100V	26~78V	17~50V	11~33V	8~24V	7~20V	6~18V	5~15V	4~12V
Ripple and Noise (max) Note 1		±10% Vo								
Voltage Accuracy		±5% Vo								
Line Regulation		±1% Vo								
Load Regulation		±3% Vo								
Rise Time		20mS Max @ Rated Load								
Hold-up Time (Typ.)		8.5mS Min (110VAC input, full load), 10mS Min (220VAC input, full load)								
Input Characteristics										
Voltage Range		90VAC~305VAC								
Frequency Range		47Hz-63Hz								
Power Factor (Typical)	110VAC	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98	>0.98
	220VAC	>0.92	>0.92	>0.92	>0.92	>0.92	>0.92	>0.92	>0.92	>0.92
Efficiency (Typical)		88%	87%	86%	86%	85%	84%	84%	83%	82%
AC Current (max)		1.0A @ 100-277VAC Input Full Load								
Inrush Current (max)		65A @ 230VAC, 25°C								
Leakage Current		0.6mA max @ 277VAC								
Protection										
Over Temperature (OTP)		110°C (Temperature of internal components); shut down, auto recover after the temperature decreases								
Over Voltage (OVP) Note 2		1.2~1.4Vo								
Short Circuit (SCP)		Long-term mode, auto recovery								
Environmental Characteristics										
Operating Temperature		-35°C~70°C								
Operating Relative Humidity		10% RH to 100% RH								
Storage Temperature		-40°C~85°C, 5% to 100% RH non-condensing								
Vibration		10 to 300Hz sweep at constant acceleration of 1.0G(Breadth: 3.5mm) for 1 Hour for each of the perpendicular axes X, Y, Z								
Waterproof Rating		IP67								
Safety Standards		UL8750, Compliance to UL1012 UL935, IEC61347								
Withstand Voltage		L/N-GND: 4kV, L-N: 2kV								
Isolation Resistance		I/P-O/P: >100M Ohms / 500VDC / 25°C / 70% RH								
EMC Emission		Compliance to EN55022(CISPR22) Class B, EN61000-3-2 Class A, EN61000-3-3								
EMC Immunity		Compliance to EN61000-3-2, 3 EN61000-4-2, 3, 4, 5, 6, 8, 11, EN61547								
Characteristics										
Life Time		More than 50,000Hrs (25°C, 80% Load)								
MTBF (MIL-HDBK-217F)		More than 550,000Hrs (25°C, 80% Load)								
Dimension (LxWxH)		199x42.5x34mm								
Note		1. Ripple & Noise: Measured by 20 MHz bandwidth oscilloscope and the output paralleled with a 0.1 uF ceramic capacitor and a 10 uF electrolytic capacitor. 2. Latch Mode: The power supply shall return to normal operation only after the power is turned on again (1) Non-Class 2 output (USR & CNR) (2) Class 2 output (USR); Non-Class 2 output (CNR) (3) Class 2 output (USR & CNR)								

MECHANICAL SPECIFICATIONS

UNIT: mm



100Vac
277Vac

