SPH185 SERIES

LED Power Supplies: 185 Watts





Specifications

Input Voltage 90 ~ 305VAC Frequency 47~63Hz

Input Current 1.05A @ 230VAC

Output V/A See table **Output Power** 185 watts

Output Ripple & 12V @ 400mV, 15V @ 500mV, Noise 24V @ 800mV, 36 & 48V @ 900mV

Output Current ±5%

Tolerance

±2%

Line Regulation **Load Tolerance** ±3%

Rise Time Typically 30ms (max 500ms 10-90% voltage)

Hold Up Time Typically 15mS at 230V input

Power Factor > 0.95

Efficiency Model Dependent 92 ~ 94% **Inrush Current** Cold start45A @ 230V **Leakage Current** 0.75mA @ 230V 50Hz

Protection:

Over Current 1.1 ~ 1.6% times rated current.

(Auto Recovery)

Short Circuit Hiccup mode with auto recovery

Overvoltage Yes. Recycle input power after approx 30sec **Over Temperature** Recycle input power after unit has cooled off

Operating Temp. -40°C ~ +70°C (80% load at +70°C)

Humidity 5~95% RH **Temp Coefficient** ±0.05% per °C **IP Rating** IP65 (IP66 option) Cooling Free air convection

Connections Input & Output flying leads

Input Power Cord & Plug - Option

Safety EN61347-1, EN61347-2-13 **Isolation Voltage** Input - Output: 5.3KV DC 1min.

EMC EN55015 Class B **Immunity** EN61000-4-2 **Harmonics** EN6100-3-2

MTBF 225Khrs per MIL-HDBK-217F (25° C)

Mechanical 195 x 74 x 38mm 1.1kg

Features

- Constant Voltage / Constant Current operation
- Output Voltage & Current adjustment
- Wide input range: 90 ~ 305VAC
- High Efficiency up to 89%
- Power Factor Correction typically 0.95
- IP65 sealed unit
- Output short circuit protection
- Over temperature protection
- Safety: EN61347-1 & -2
- **EMC** and Immunity compliant
- Optional mains power cord & plug

Description

The SPH185 series power supplies are designed specifically for use with LED applications and available with output voltage options from 12

These units can operate in Constant Voltage or Constant current mode and output voltage & current is fully adjustable, providing total

Electronic protection turns off the power supplies in case of short circuit or overload, as well as open circuit or over temperature.

These units are designed to be hard wired in fixed installations, or with an optional power cord, that can be connected to the input terminals with a standard AC plug, for easy installation to any GPO socket / outlet

Model	Output V A		Output Adjustment V A		Power W
SPH185-12A	12V	14A	10.5-13.5V	8.4 ~14A	168W
SPH185-15A	15V	12A	13.5 - 17V	7.2 ~ 12A	180W
SPH185-24A	24V	7.7A	22 - 27V	4.6 ~ 7.7A	185W
SPH185-36A	36V	5.1A	33 – 40V	3 ~ 5.1A	185W
SPH185-48A	48V	3.85A	43 - 53V	2.3 ~ 3.85A	185W

For optional input mains power cord & plug, add -AC to model.

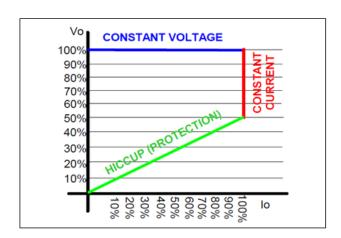


Fig 1: Typical Constant Voltage / Constant Current curve.