SP120D – SP130D Series

Desk-Top, Switch Mode Power Supply
RoHS Compliant, CEC Efficiency Level IV

Features:

- Active PFC
- C14 & C6 Input
- Over-Voltage Protection
- Short Circuit Protection
- Over-Current Protection
- 100% Burn-In
- 100% Hi-Pot Tested
- RoHS Compliant
- CEC Efficiency Level: IV

Input

Input Voltage	90 to 264 VAC
Input Frequency	47 to 63Hz
Input Current	2.5A Max
No Load Power Consumption	≤0.5 Watts
Safety Ground Leakage Current	0.75mA Max.

Output

Output Voltage & Current	***See Chart***
Ripple & Noise (P-P)	***See Chart***
Over-Voltage Protection	Auto Recovery
Over-Current Protection	Protected to Short Circuit Conditions, Auto Start
Temperature Coefficient	± 0.05% / °C Max.

Environmental

Operating Temperature	0°C to 40°C
Storage Temperature	-20°C to 85°C
Relative Humidity	5% to 95% Non-Condensing

Electrical

Efficiency	Meets CEC Level IV Criteria
Hold-Up Time	10mS Min.
Line Regulation	1% Max. at Full Load
Load Regulation	±5% Max. at Full Load
Inrush Current	100A Max.
Withstanding Voltage	4242 VDC from Input to Output, 2121 VDC from Input to Ground
Insulation Resistance	50 MΩ Min. from Output to Ground
Mean Time Between Failure (MTBF)	100,000 Hours Min., Full Load at 25°C Ambient

Safety

EMI Requirements	Meets Conduction Limits of: (A) FCC Part-15 Class B (B) CISPR-22 Class B
Safety Standards	Meets or Exceeds: (A) UL (B) C-UL (C) TUV (D) CE (E) CB (F) FCC (G) CEC Level IV

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Output Voltage and Current Chart

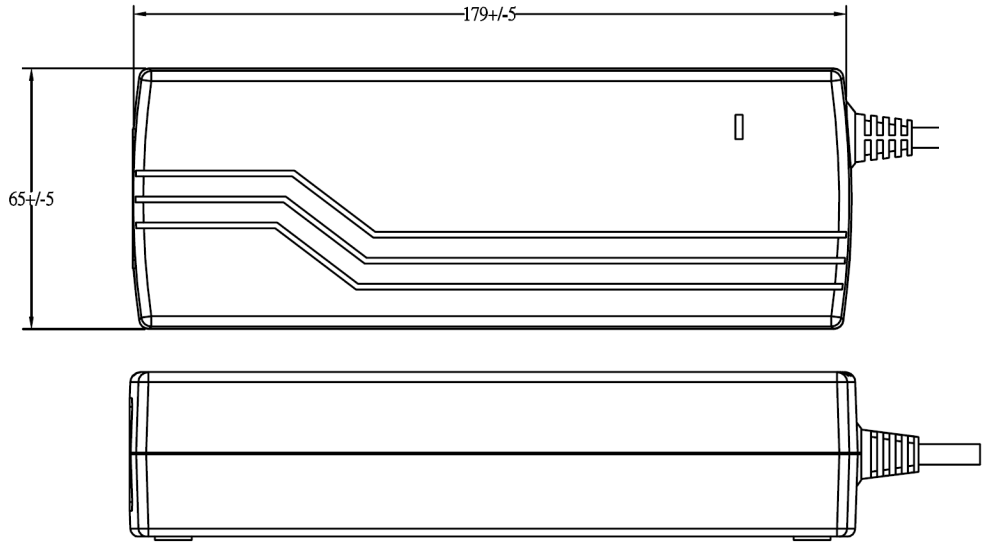
Model Number**	Output Voltage	Maximum Output Current	Ripple & Noise (of Rated Output Voltage)	Maximum Output Power
SP120DYXXR	12 - 17 VDC	10.0 A	2.0% Max.	120W
SP120DYXXR	18 - 24 VDC	6.67 A	1.5% Max.	120W
SP130DYXXR	18 - 24 VDC	7.22 A	2.0% Max.	130W

** To Determine Part Number:

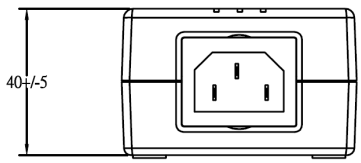
- Replace "Y" with Required Input Socket Style Designation (C6 = "6", C14 = "9")
- Repace "XX" with Required Output Voltage (15VDC = "15", 24VDC = "24", etc.)

Example: SP120D**9***24*R indicates a 24VDC Unit with a C-14 Input Socket.

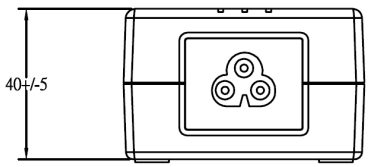
Note:
Output conntector to be specified
Standard Connecter is a 4 ft. cable with 5-Pin Din Plug



Note:
Determine part number by selecting Input Socket Style Designation (below) in place of “Y”



C14 = “9”



C6 = “6”

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