

AWSP100 Series

TUV Cert. No.: 50200771

UL File: E204980



100 Watt Single Output Enclosed Switching Power Supply with PFC for General Purpose Applications



:: Specifications (@25°C)

Input Characteristics

Input Voltage: 88 - 264 Vac
 Input Frequency Range: 47 - 63 Hz
 Max Input Current: 1.8 A @ V_{in} (rated)
 Max Inrush Current: 20A / 40 A @ 110 / 220 VAC (cold start)
 Power Factor: >0.92

Output Characteristics

Minimum Load: No minimum load
 Adjustable Output Range: $\pm 10\%$
 Ripple & Noise: 100 mV
 Regulation: $\pm 1.0\%$ Load / $\pm 0.5\%$ Line
 Efficiency: 75%
 Start-up Time: 300 ms max @ 230 Vac
 Hold-up Time: 20 ms min, 100% Load@230 Vac
 Rise-up Time: 600 ms max, 100% Load@230 Vac
 Over Current Protection: 105% - 150%, Power cycle reset
 Over Voltage Protection: 125% - 145%

General Specifications

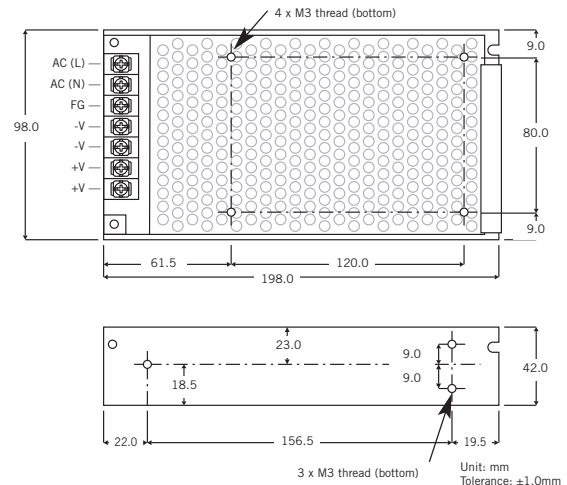
Switching Frequency: 134 kHz (PWM) / 67 kHz (PFC)
 Dimension (LxWxH): 7.83 x 3.86 x 1.65" / 199 x 98 x 42 mm
 Weight: 560 g net, 610 g gross
 Warranty: 2 years

Environmental Specifications

Operating Temperature: 0~60°C Full Load
 Storage Temperature: -25~+75°C
 Humidity: 20 to 90% RH, non-condensing
 Vibration: 10 - 55Hz, 2 G 1 min / cycle, period of 60 min, each axis
 Reliability: >167,000 Hours MTBF

EMC & Safety Specifications

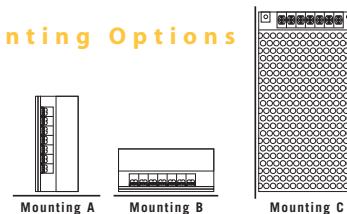
EMC Emissions: Conforms to EN55022,VCCI,CISPR22 Class B (Conducted & Radiated); IEC-61000-4-2, 61000-4-4, 61000-4-5, 61000-4-11
 Safety Approval: UL 60950 (UL File No: E204980)
 TUV EN60950 (TUV No: 50067240)



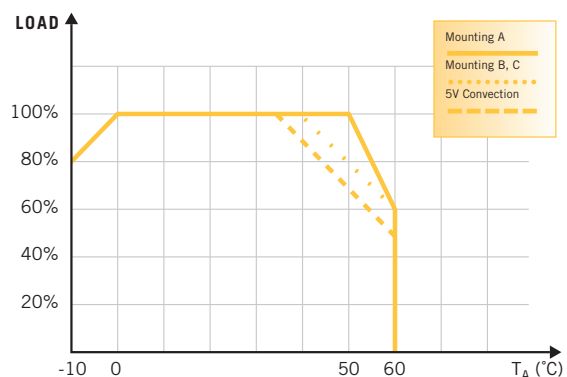
:: Connector Types

Input: Screw Terminals
 Output: Screw Terminals

:: Mounting Options



:: Derating Curve



Part Number	Voltage	Current	Efficiency
AWSP100-5	5.0V	20A	75%
AWSP100-12	12V	8.4A	80%
AWSP100-24	24V	4.2A	84%