

APS100EM SERIES:



100 Watts / Single Output

- 5.91 x 2.36 x 1.32" UL94V-0 Plastic Case (Desktop)

Features:

- Universal AC Input (90~264 VAC Input Range)
- CEC Green Power Compliant (Level 4)
- High Efficiency Operation - Up to 90%
- 2 or 3 Prong AC Inlet Options
- Class B Emissions
- International Safety Approvals
- 2 Year Warranty

INPUT:

Input Voltage	90~264 VAC (Universal AC Input)
Input Frequency	47-63Hz
Inrush Current	7.2A @ 230 VAC Cold Start
Input Current	0.976A @ 115 VAC / 0.496A @ 230 VAC Typical
Input Protection	Dual Fuse
Hold-Up Time	22 / 43 ms @ 115 / 230 VAC Minimum
Leakage Current	<126 μ A @ 240 VAC Maximum
Harmonics	EN61000-3-2 Class A Compliant
Green Power	Less than 0.37W @ 132 VAC (No Load) Less than 0.50W @ 264 VAC (No Load)

OUTPUT:

Minimum Load	1% to maintain Regulation
Line Regulation	$\pm 0.3\%$ max
Load Regulation	$\pm 2.0\%$ max
Ripple & Noise	$\pm 1\%$ typ. pk-pk @ 20MHz
Overload Protection	110-135% of max power (Foldback)
Over Voltage	Latching before 130% of nominal
Short Circuit Protection	Continuous (auto-recovery)
Transient Response	recovers <1ms following a 25% load change
Switching Topology	Fixed Flyback Circuit
Switching Frequency	40~65KHz

GENERAL:

Efficiency	88~90% typical
Operating Temperature	0-40°C, derate linearly to 50% Load at 50°C
Storage Temperature	-20°C to +85°C
Over-Temp Protection	>85°C Shutdown (Ambient)
Cooling	Convection Cooled
OverTemp Protection	Installed
Operating Humidity	5-95% RH, Non-Condensing
Vibration	5 ~ 50 Hz, acceleration 7.35 m/s ² on X,Y and Z Axis
MTBF	>50k Hrs (according to MIL-HBK-217F) at 25°C

EMC:

Electrostatic Discharge	EN61000-4-2, ± 4 KV Contact / ± 8 KV Air Discharge
Radiated Susceptibility	EN61000-4-3, 26-1000MHz, 10V/M, 80% AM
EFT / Bursts	EN61000-4-4, ± 2 KV
Surges	EN61000-4-5, ± 2 KV Line-Earth, ± 1 KV Line-Line
Conducted Immunity	EN61000-4-6, 0.15-800MHz, 10V, 80% AM
Voltage Dips	EN61000-4-100, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% reduction, 5s
Fluctuations & Flicker	EN61000-3-3

Safety Approvals are pending

APPROVALS:

Emissions EN55022 "B", FCC Part 15 Subject J Class B

Safety Approvals UL/cUL 60601-1
TUV EN60601-1
CB IEC60601-1
CE Mark (LVD)



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Output Specifications:

Model:	Vout	Max Output Current
APS100EM-120700-px-ccc	12V	7.00 A
APS100EM-150620-px-ccc	15V	6.20 A
APS100EM-190530-px-ccc	19V	5.30 A
APS100EM-240420-px-ccc	24V	4.20 A
APS100EM-360270-px-ccc	36V	2.70 A
APS100EM-480200-px-ccc	48V	2.10 A
APS100EM-580170-px-ccc	58V	1.70 A

- Replace p with the suffix below to complete the part number and designate the mechanical package option below:
 Suffix "8" Package: 2-Prong AC Inlet
 Suffix "7L" Package: 3-Prong AC Inlet
- Optional LED Indicator, replace x with the following:
 Blank - no LED indicator
 A = LED Indicator
- Replace ccc with the connector option defined here: <http://advpower.com/dcconnector.pdf>

OUTLINE DRAWING:

