

## APS100/120EST SERIES:



### 100~120 Watts / Single Output

- 6.30 x 2.56 x 1.71" UL94V-0 Plastic Enclosure

### Features:

- Revolutionary, patented case design for optimum heat dissipation
- Universal AC Input with Active Power Factor Correction
- Synchronous Rectification for High Efficiencies up to 88%
- CEC Level IV Compliant
- LED Power-On Indicator
- International Safety Approvals
- Class B Emissions
- 2 Year Warranty

### INPUT:

Input Voltage	90~264 VAC (Universal AC Input)
Input Frequency	47-63Hz
Inrush Current	100A @ 230 VAC Cold Start (maximum)
Input Current	2.5A Max Continuous
Input Protection	Single Fuse
Hold-Up Time	10ms @ 115VAC / Full Load (minimum)
Leakage Current	<750µA @ 240 VAC Maximum
Power Factor	EN61000-3-2 Class D Compliant
No Load Input Power	Compliant to CEC Level IV Standards

### GENERAL:

Efficiency	85~88% 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	>85°C
Operating Humidity	5-95% RH, Non-Condensing
Vibration	5 ~ 50 Hz, acceleration 7.35 m/s*s on X,Y and Z Axis
MTBF	>40k Hrs (according to MIL-HBK-217F) at 30°C

### OUTPUT:

Minimum Load	1% to maintain Regulation
Line Regulation	±2% max
Load Regulation	±5% max
Ripple & Noise	250mV typ. pk-pk @ 20MHz
Overload Protection	110~130% (Foldback)
Over Voltage	Latching before 130% of nominal
Short Circuit Protection	Continuous (Auto-Recovery)
Transient Response	recovers <2.5ms following a 50% load change
Overshoot	Turn-on & off overshoot < 10% over nominal voltage
Turn-On Delay	1 Second maximum at 120VAC

### EMC:

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

### APPROVALS:

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

Safety Approvals UL/cUL 60950-1  
 CSA22.2 No. 60950-1  
 TUV EN60950-1  
 CE Mark (LVD)



## APS100/120EST SERIES:

**Output Specifications:**

Model:	Vout	Max Output Current	Max Output Power
APS100EST-12-MDP4	12.0V	8.50A	102 Watts
APS100EST-13-MDP4	13.0V	8.46A	110 Watts
APS100EST-15-MDP4	15.0V	7.33A	110 Watts
APS100EST-17-MDP4	17.0V	6.47A	110 Watts
APS120EST-18-MDP4	18.0V	6.50A	117 Watts
APS120EST-19-MDP4	19.0V	6.32A	120 Watts
APS120EST-20-MDP4	20.0V	6.00A	120 Watts
APS120EST-24-MDP4	24.0V	5.00A	120 Watts

- “-MDP4” Designates the 4 Pn Min-DIN Plug as shown in the drawing below
- Additional output connector available, see connector options at <http://advpower.com/dcconnector.pdf>

**OUTLINE DRAWING:**

