

## APS50EMG SERIES:



### 50 Watts Single Output Models

- 4.33 x 2.28 x 1.27" Desktop Package

### Features:

- IEC / EN60601-1 3rd Edition Safety Approvals
- UL / IEC / EN60950 Safety Approvals
- IEC-320 C8 or C14 Inlet Models
- Universal AC Input Range
- EN55011 / EN55022 Class B Emissions
- Efficiency Level V Compliant
- 2 Year Warranty

### INPUT:

Input Voltage	90~264 VAC (Universal)
Input Frequency	47-63Hz
Inrush Current	14.6A <sub>RMS</sub> / 76A @ 230 VAC Cold Start (max)
Input Current	0.9 Max @ 115 VAC (Full Load)
Hold-Up Time	19ms @ 115VAC / 81ms @ 230VAC (min)
Leakage Current	Class I Input: <300µA @ 264 VAC
Touch Current	Class II Input: < 100µA @ 264 VAC
No Load Power	Less than 0.3W at 230 VAC

### GENERAL:

Efficiency	77-90% typical
Operating Temperature	0-40°C, derate linearly to 50% Load at 50°C
Storage Temperature	-20°C to +85°C
Over-Temp Protection	Optional NTC Circuit
Cooling	Convection
Operating Humidity	5-90% RH, Non-Condensing
Vibration	5 ~ 50 Hz, acceleration 7.35 m/s*s on X,Y and Z Axis
MTBF	>100k Hrs (according to MIL-HBK-217F) at 30°C

### OUTPUT:

Adjustment Range	Fixed
Minimum Load	None
Line Regulation	±0.1% max
Load Regulation	±13% max
Ripple & Noise	±2% typ. pk-pk @ 20MHz
Overload Protection	All Outputs (foldback)
Over Voltage	Latching
Short Circuit Protection	Trip without damage & auto-recovery
Transient Response	recovers <1ms following a 25% load change

### APPROVALS:

Emissions	EN55011/ EN55022 Class B
Safety Approvals	IEC/EN 60601-1 3rd Edition UL/cUL 60950-1, IEC/EN60950-1 CE Mark

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### Output Specifications:

Model:	V1	A1
APS50EMG-033700-x-zzz	3.3V	7.00A
APS50EMG-050700-x-zzz	5V	7.00A
APS50EMG-090500-x-zzz	9V	5.00A
APS50EMG-120420-x-zzz	12V	4.20A
APS50EMG-150336-x-zzz	15V	3.36A
APS50EMG-240215-x-zzz	24V	2.15A
APS50EMG-480110-x-zzz	48V	1.10A

- Replace "X" with the options below to designate the desired AC inlet option below:  
 Suffix "8" Package: 2-Prong IEC-320 C8 Inlet (Class II Safety Approvals)  
 Suffix "7" Package: 3-Prong IEC-320 C14 Inlet (Class I Safety Approvals)
- Replace "zzz" with output connector option desired as defined here: <http://advpower.com/dcconnector.pdf>
- DC Cable length is 1000mm for ≤12V Models and 2000mm for ≥15V models (±50mm)
- Consult APS for Unique Voltage Setpoints

### DESKTOP PACKAGE:

