

VEG20 Series

15-24 Watt

Single Output Desktop Power Supply

Features:

- * Universal AC Input (90-264VAC / 47-63 Hz)
- * ErP Step 2 | CEC Level V Compliant
- * No load power Consumption less than 0.3 Watts
- * Small 3.42 x 1.69 x 1.22" Desktop Package
- * Plastic (UL 94V-0 Rated) Enclosure
- * IEC-320 C6 / C8 / C14 Inlet Options
- * Class II Safety Approvals (No Ground Required)
- * UL / cUL 60950-1, CB IEC60950-1 Safety Approvals
- * EN55022 class B, FCC PART 15 class B Emissions
- * 2 Year Warranty



Input Specifications:

Input Range	Universal VAC (90-264 VAC)
Input Frequency	47-63 Hz or DC
Inrush Current	less than 70A @ 230VAC (cold start)
Input Current	2000mA@ 115 VAC max continuous
Input Reflected Ripple	FCC 68 part 15 Class B
Efficiency	75-78% minimum
Input Protection	Single Fused (1 Amp / 250 V)
Hold-up Time	10ms minimum (full load)
Leakage Current	<1000μA maximum @ 240 VAC
Harmonics	EN61000-3-2 Class D

Output Specifications:

Adjustment Range	Fixed At Factory
Minimum Load	None
Regulation	±1% Line / ±2-5% Load
Ripple / Noise	90-160mv pk-pk max (20MHz)
Transient Response	+/- 5% Deviation / < 1msec recovery
Set-Point Accuracy	±1%
Short Circuit Protection	Continuous
Over Load Protection	125-250%, hiccup mode
Over Voltage Protection	120-180% zener diode

Emissions Standards

FCC Part 15J, Part 2	Within Class B Limits
EN55022 / CISPR22	Within Class B Limits

Electromagnetic Compatibility:

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	EN61000-4-11, 95% Dip & 10ms, 30% Dip & 500ms
Voltage Interruptions	EN61000-4-11, 95% Reduction, 5s
Radiated Emissions	FCC 68 part 15 Class B
Conducted Emissions	FCC 68 part 15 Class B
Harmonic Current	EN61000-3-2 Class D
Fluctuations & Flicker	EN61000-3-3

Environmental Specifications:

Operating Temp	0 ~40°C (De-Rate 5%/°C Rise up to 50°C)
Storage Temp	-20 ~ +85°C
Cooling	Convection Cooled
Temp Co-Efficient	0.4% per °C
Humidity	20-90%RH (non-condensing)
Vibration	10-500Hz, 2G, 10min period/60 min each (3axes)
Shock	20G Peak Acceleration
Reliability	50k hours MTBF (MIL-HDBK-217F)

International Safety Approvals

Standards	UL/cUL60950-1 CB Report IEC60950-1 CE Mark (LVD)
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EN55022 class B, FCC PART 15 class B Emissions

Output Table:

Model Number	Watts	Output	DC Cable	Efficiency
VEG20x-050F	15W	5V/3A	AWG18x6FT	75%
VEG20x-120F	20W	12V/1.66A	AWG18x6FT	77%

Note:

- * "X" present input connector type, A=IEC320-C6, B=IEC320-C8 and C=IEC320-C14
- * Standard AC input connector is IEC320-C14, 3 prong.
- * Standard Output Connector is 5.5 x 2.1 x 11mm Barrel Jack (straight) with center hole positive.
- * Consult your salesperson to request other cable / connector option

Mechanical Specifications:

Construction: External Desktop

