

WRG20 Series

15-24 Watt

Single Output Wall Mount Power Supply

Features:

- * Universal AC Input (90-264VAC / 47-63 Hz)
- * ErP Step 2 / CEC Level V Compliance
- * No load power Consumption less than 0.3 Watts
- * Small 2.90 x 1.26 x 1.89" Wall Mount Package
- * Plastic (UL 94V-0 Rated) Enclosure
- * Class II Safety Approvals (No Ground Required)
- * UL / cUL 60950-1 Safety Approvals & Pass LPS
- * 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 40A @ 230VAC (cold start)
Input Current	800mA@ 100 VAC max continuous
Input Reflected Ripple	FCC 68 part 15 Class B
Efficiency	75-81% minimum
Input Protection	Single Fused (1 Amp / 250 V)
Hold-up Time	10ms minimum (full load)
Leakage Current	<250 μ A maximum @ 240 VAC
Harmonics	EN61000-3-2 Class D

Output Specifications:

Adjustment Range	Fixed At Factory
Minimum Load	None
Regulation	$\pm 1\%$ Line / $\pm 5\%$ Load
Ripple / Noise	1% pk-pk max (20MHz)
Transient Response	+/- 5% Deviation / < 1msec recovery
Set-Point Accuracy	$\pm 1\%$
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, ± 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	EN61000-4-11, 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	0-200Hz, 2.5G, 30min /per axis (3axes)
Shock	20G Peak Acceleration
Reliability	50k hours MTBF (MIL-HDBK-217F)

International Safety Approvals

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

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Output Table:

Model Number	Watts	Output	DC Cable	Efficiency
WRG20F-050F	15W	5V/3A	AWG18x5FT	75%
WRG20F-12DA	24W	12V/2A	AWG18x6FT	81%

Note:

- * Standard Output Connector is 5.5 x 2.1 x 11mm Barrel Jack (straight) with center positive.
- * All efficiency data are base on 115VAC and full load.
- * Consult your salesperson to request other cable / connector option

Mechanical Specifications:

Construction: External Desktop

Weight: 0.40 lbs.

