

800 Watts

SMR Series



- Up to 900 W Peak Output Power
- Single Outputs from 12 V to 60 V
- Compact Package
- Remote On/Off
- Semi F47 Compliant
- Optional Current Share
- 3 Year Warranty

Specification

Input

Input Voltage	• 90-264 VAC (120-370 VDC)
Input Frequency	• 47-63 Hz
Input Current	• 11 A at 90 VAC, 5 A at 230 VAC
Inrush Current	• 70 A at 230 VAC
Power Factor	• 0.99 typical
Earth Leakage Current	• <2.4 mA max at 264 VAC
Input Protection	• Fitted with a T12 A/250 V fuse

Output

Output Voltage	• See table
Output Voltage Trim	• $\pm 5\%$
Initial Set Accuracy	• $\pm 1\%$
Minimum Load	• 1% to meet ripple & noise spec
Start Up Delay	• 1.5 s at 230 VAC
Start Up Rise Time	• 40 ms typical
Hold Up Time	• 16 ms min at 120 VAC
Line Regulation	• $\pm 0.5\%$, low line to high line
Load Regulation	• $\pm 1\%$, 1-100% load (see note 4)
Over/Undershoot	• 5% max
Transient Response	• 5% max deviation, 500 μ s recovery to within 1% for a 50% load change
Ripple & Noise	• 1% of nominal output voltage (see note 2)
Overvoltage Protection	• 110-130% recycle input to reset
Overtemperature Protection	• Measured internally with auto recovery
Overload Protection	• 110-140% with auto recovery
Short Circuit Protection	• Trip and restart (Hiccup mode)
Remote Sense	• Compensates for up to 0.5 V line drop (not available with current share)
Remote On/Off	• On = TTL Logic HIGH, or open circuit Off = TTL Logic LOW or short circuit
Current Share	• Optional single wire current share within 10% for up to 4 units (add suffix '-I' to model number) Note that this option includes output blocking diodes. Remote sense is not available with current share.

General

Efficiency	• 80% min for 12 V model 82% min for others models at 230 VAC
Isolation	• 3000 VAC Input to Output 1500 VAC Input to Ground 250 VDC Output to Ground
Switching Frequency	• 60 kHz PFC, 25 kHz PWM typical
Power Density	• 8.2 W/In ³
Signals	• Green LED for Power On, Power Good TTL HIGH within 100-500 ms and LOW ≤ 1 ms before loss of regulation
Current Monitor	• 0.5 V to 3 V output denoting 0-100% output current
MTBF	• 150 kHrs min to MIL-HDBK-217F at 25 °C, GB

Environmental

Operating Temperature	• 0 °C to +70 °C, derates from 100% load at +50 °C to 50% load at +70 °C
Cooling	• Internal fan
Operating Humidity	• 5-90%, non-condensing
Storage Temperature	• -20 °C to +85 °C
Operating Altitude	• 3000 m
Vibration	• 5-50 Hz, acceleration 7.35 ms ² on X, Y and Z axis

EMC & Safety

Emissions	• FCC Part 15 & EN55022 Level B conducted and radiated
Harmonic Currents	• EN61000-3-2
Voltage Flicker	• EN61000-3-3
ESD Immunity	• EN61000-4-2, level 3 Perf Criteria A
Radiated Immunity	• EN61000-4-3, 3 V/m Perf Criteria A
EFT/Burst	• EN61000-4-4, level 2 Perf Criteria A
Surge	• EN61000-4-5, level 3 Perf Criteria A
Conducted Immunity	• EN61000-4-6, 3V Perf Criteria A
Dips & Interruptions	• EN61000-4-11, 30% 10 ms, 60% 100 ms, 100% 5000 ms Perf Criteria A, B, B
Safety Approvals	• UL60950, CSA C22.2 No. 950, EN60950-1:2001, CE Mark LVD, SEMI F47 compliant (high line only) at 100% rated power output

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