**PRODUCT FEATURES:**

- 220V AC Input; Power Factor Correction
- 48V DC Output (Adjustable)
- Designed for Outdoor Applications; -40°C to +50°C
- Battery Backup with Low Voltage Disconnect and Float Charging w/Temperature Compensation
- RS-485 for Control, Alarms, and Monitoring
- Sensors for Fire, Door, and Cabinet Temperature
- Meets Conducted EMI, Class B
- Currently Deployed in South Korean Market
- Designed to Meet Telcordia and UL for US Market

**INPUT SPECIFICATIONS:**

- **VOLTAGE:** AC Input (176 ~ 264VAC)
- **FREQUENCY:** 47~63 Hz
- **PROTECTIONS:** Circuit Breakers: 15A AC Input; 7A AC Outlet
- **EFFICIENCY:** ≥ 87% @ 230VAC (Full Load, 48Vout, typical)
- **HARMONICS:** EN61000-3-2 compliant (0.97 PF)

**OUTPUT SPECIFICATIONS:**

- **VOUT ADJUSTMENT:** 48VDC to 59VDC
- **DC LOAD CURRENT:** 5.0A max
- **LINE REGULATION:** ±1% max, across full input range
- **LOAD REGULATION:** ±1% max, across full load range
- **RIPPLE & NOISE:** ±1.5% p-p, max (20MHz BW)
- **EXCURSION:** ±5% max, 25% Step Load
- **RECOVERY:** 100ms max
- **PROTECTIONS:** Current Limit, Short Circuit, OVS0, and Circuit Breakers: 7A DC Output, 7A Battery

**ADDITIONAL PROTECTIONS & FEATURES:**

- Input Undervoltage
- Thermal Shutdown
- Battery Thermal Compensation
- Battery Low Voltage Disconnect (LVD)
- Fire, Door, and Battery Cabinet Temperature Sensors
- Battery Heater Pad (220VAC, 60W)

**BATTERY:**

- Four internally mounted Rocket ES4-12 (4.0Ah @ 12V each; VRLA)
- Backup Time: 20 Minutes @ 180W

**GENERAL SPECIFICATIONS:**

- **OPERATING TEMPERATURE:** -40°C to +50°C (No Derating)
- **STORAGE TEMPERATURE:** -40°C to +80°C
- **OPERATING HUMIDITY:** 5% ~ 95% (non-condensing)
- **STORAGE HUMIDITY:** 5% ~ 95% (non-condensing)
- **COOLING:** Free-Air Convection (No forced airflow required)
- **VIBRATION:** 10-55Hz, 2G, 3Min Period, 60 min each (3 axes)
- **SHOCK:** 20G Peak Acceleration
- **RELIABILITY:** >1,000,000 Hours (per MIL STD 217F)
- **SIZE (RACK & MODULE):** 11.61” x 6.58” x 22.84” (WxHxD)

**EMISSIONS:**

- **EMISSIONS:** EN55022 Level B (Conducted)
- **ESD:** EN61000-4-2, 4kV Contact / 8kV Air
- **RADIATED SUSCEPTIBILITY:** EN61000-4-3, 26MHz-2000MHz, 10V/m, 80%AM
- **EFT / BURSTS:** EN61000-4-4, 2kV
- **SURGES:** EN61000-4-5, 2kV Earth, 1kV Line-Line
- **CONDUCTED IMMUNITY:** EN61000-4-6, 150kHz-800MHz, 10Vms, 80%AM
- **VOLTAGE DIPS:** EN61000-4-8, 95% Dip, 10ms / 30% Dip, 500ms
- **VOLTAGE INTERRUPTIONS:** EN61000-4-11, 95% reduction, 5ms
- **FLUCTUATIONS & FLICKER:** EN61000-3-3

**SAFETY STANDARDS:**

- **DESIGNED TO MEET UL / cUL:** 60950-1
- **DESIGNED TO MEET TELCORDIA:** GR-1089-CORE section 2
- **DESIGNED TO MEET TELCORDIA:** GR-1089-CORE section 4
- **DESIGNED TO MEET TELCORDIA:** GR-1089-CORE section 4

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