

# SRRH-4805 (RECR-04D)

the  
**POWER**  
you need



REV: 10032011

OUTDOOR APPLICATION

## 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, OVSD, and<br>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-80MHz, 10Vrms, 80%AM     |
| VOLTAGE DIPS            | EN61000-4-10, 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 4.4 |