

ELECTRONICS SPECIFICATION SHEET
(VERSION 2.1)

| DESCRIPTION | 100AH, 48V | 205AH, 48V |
|--|-------------------|-------------------|
| MODEL NUMBER | RGS51100 | RGS51200 |
| POWER RATINGS | 100AH, 48V | 205AH, 48V |
| NOMINAL VOLTAGE | 48 | 48 |
| ACTUAL VOLTAGE @20% SOC | 51.2 | 51.2 |
| AMP-HRS | 100 | 205 |
| NAMEPLATE CAPACITY-KWH | 5.12 | 10.5 |
| CHARGING/DISCHARGING | 100AH, 48V | 205AH, 48V |
| MAX CONTINUOUS DISCHARGE AMPS | 90 | 140 |
| RECOMMENDED DISCHARGE (MAX AMPS) | 75 | 120 |
| MAX CONT. DISCHARGE KW | 4.6 | 7.2 |
| SURGE DISCHARGE AMPS 0.5 (MICRO SECONDS) | 1,000 | 1,000 |
| SURGE DISCHARGE 10MS | 200 | 300 |
| MAX CHARGING AMPS-CONTINUOUS | 70 | 120 |
| PEAK CHARGING AMPS-30 MINUTES | 80 | 140 |
| RECOMMENDED VOLTAGE RANGE (CYCLING) | 51-56.5 | 51-56.5 |
| MAX VOLTAGE RANGE (CYCLING) | 48-57.6 | 48-57.6 |
| RECOMMENDED ABSORB VOLTS | 56.8 | 56.8 |
| MAX ABSORB VOLTS-SOLAR ONLY | 57.6 | 57.6 |
| ABSORB DONE AMPS/PER BATTERY | 5 | 10 |
| ABSORB DONE TIME (MINUTES) | 10 | 10 |
| FLOAT VOLTS | 54.4 | 54.4 |
| TEMP COMP-MV/DEGREES CELSIUS | 0 | 0 |



| OPERATIONAL | 100AH, 48V | 205AH, 48V |
|--|--------------------------------|--------------------------------|
| RATED CYCLE LIFE-100% DOD | 4,000 | 4,000 |
| RATED CYCLE LIFE-80% DOD | 6,000 | 6,000 |
| RATED CYCLE LIFE-50% DOD | 8,500 | 8,500 |
| RETAINED CAPACITY AT END OF CYCLE LIFE | 80% | 80% |
| MAX RECOMMENDED DISCHARGE VOLTS | 51V (20%) | 51V (20%) |
| INVERTER LOW BATTERY CUTOUT | 48V | 48V |
| LOW VOLT CUTOUT WAKEUP | 44 | 44 |
| HIGH VOLT CUTOUT WAKEUP | 55 | 55 |
| HIGH CURRENT CUTOUT WAKEUP | REVERSE DIRECTION OF CURRENT | |
| CERTIFICATION | 100AH, 48V | 205AH, 48V |
| BATTERY CERTIFICATION | UL9540A | UL9540A PENDING |
| TRANSPORT CERTIFICATION | UN38.3 | UN38.3 |
| EXTERNAL | 100AH, 48V | 205AH, 48V |
| HANDLES | INDENTED HANDLES | INDENTED HANDLES |
| TERMINAL TYPE | BOLT-ON M8 | BOLT-ON M8 |
| MAX TORQUE | 20FT LBS | 20 FT LBS |
| ENVIRONMENT/INSTALLATION | 100AH, 48V | 205AH, 48V |
| VENTILATION REQUIRED | NO | NO |
| MINIMUM TEMP (DEGREES F) | 32 | 32 |
| MAXIMUM TEMP (DEGREES F) | 120 | 120 |
| MAXIMUM BATTERIES PER STACK | 6 | 4 |
| IP RATING | 50 | 50 |
| OUTDOOR RATED | NO | NO |
| INSTALLATION POSITION | HORIZONTAL WITH BASE UNIT ONLY | HORIZONTAL WITH BASE UNIT ONLY |

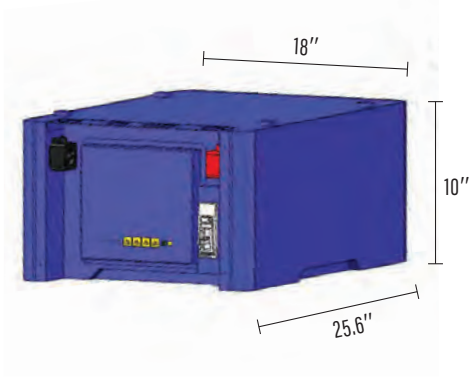
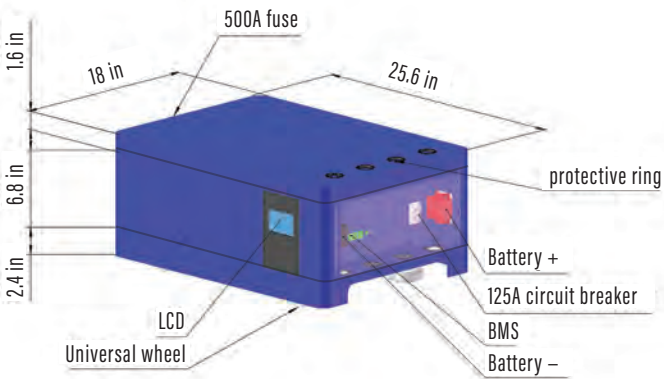


| SAFETY | 100AH, 48V | 205AH, 48V |
|---------------------------------|-------------------|-------------------|
| BREAKER SIZE (AMPS) | 125 | 150 |
| BMS LOW VOLT CUTOUT | 41+/-1 VOLT | 46 +/- 1 VOLT |
| BMS HIGH VOLT CUTOUT | 59+/-1 VOLT | 59 +/- 1 VOLT |
| BMS LOW TEMP CUTOUT | 32 F | 32 F |
| BMS HIGH TEMP CUTOUT | 135 F | 135 F |
| PRESSURE VENTED CELLS | YES | YES |
| INTERNAL | 100AH, 48V | 205AH,48V |
| CELL CHEMISTRY | LIFEP04 | LIFEP04 |
| CELL FORMAT | PRISMATIC | PRISMATIC |
| BMS AMP RATINGS | 150 | 200 |
| BALANCING TYPE | IMPACTIVE | IMPACTIVE |
| CELL CONNECTION | WELDED BUSBAR | WELDED BUSBAR |
| MAX BALANCING CURRENT | 1.1A | 1.1A |
| TOUCHSCREEN LCD FEATURES | 100AH, 48V | 205AH, 48V |
| SOC% | ✓ | ✓ |
| VOLTS | ✓ | ✓ |
| CHARGING/DISCHARGING AMPS | ✓ | ✓ |
| BALANCER STATUS | ✓ | ✓ |
| CELL VOLTAGES | ✓ | ✓ |
| FAULTS | ✓ | ✓ |



| PHYSICAL DIMENSIONS & WEIGHTS | 100AH, 48V | 205AH, 48V |
|-------------------------------|--------------|----------------------|
| BATTERIES PER CRATE | 4 | 2 |
| CRATE DIMENSIONS | 40 x 30 x 22 | 40 x 30 x 22 |
| BATTERY DIMENSIONS | see drawing | see drawing |
| BATTERY WEIGHT | 117 | 199 |
| TOTAL CRATE WEIGHT | 525 | 437 |
| 100AH BATTERY | | 205AH BATTERY |

BOTH BATTERY MODELS USE THE SAME BASE AND LID



BATTERY SPACING REQUIREMENTS

- Minimum spacing between batteries and wall: **3 inches**
- Minimum spacing between parallel battery stacks: **4 inches**
- Minimum spacing between top of battery stack and solar equipment on wall: **6 inches**
- Minimum spacing between battery bank and water sources/conductors: **4 feet**