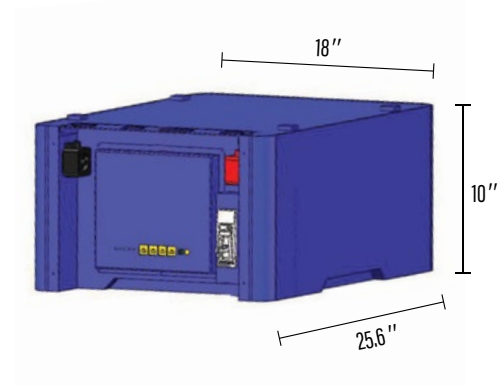
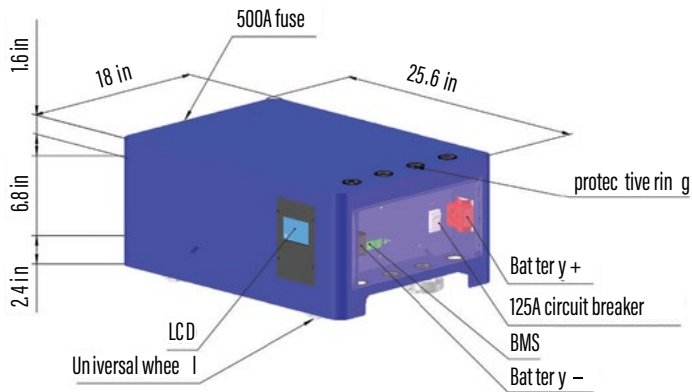


	100AH, 48V	205AH, 48V
DESCRIPTION		
MODEL NUMBER	RGS51100	RGS51200
POWER RATINGS		
NOMINAL VOLTAGE	48	48
ACTUAL VOLTAGE @20% SOC	51.2	51.2
AMP-HRS	100	205
NAMEPLATE CAPACITY—KWH	5.12	10.5
CHARGING/DISCHARGING		
MAX CONTINUOUS DISCHARGE AMPS	90	140
RECOMMENDED DISCHARGE (MAX AMPS)	75	120
MAX CONT. DISCHARGE 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 °C	0 °C

	100AH, 48V	205AH, 48V
OPERATIONAL		
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 CUTOFF	48V	48V
LOW VOLT CUTOFF WAKEUP	44	44
HIGH VOLT WAKEUP	55	55
HIGH CURRENT CUTOFF WAKEUP	REVERSE DIRECTION OF CURRENT	
CERTIFICATION		
BATTERY CERTIFICATION	UL9540A	UL9540A PENDING
TRANSPORT CERTIFICATION	UN38.3	UN38.3
EXTERNAL		
HANDLES	INDENTED HANDLES	INDENTED HANDLES
TERMINAL TYPE	BOLT-ON M8	BOLT-ON M8
MAX TORQUE	20 FT LBS	20 FT LBS
ENVIRONMENT/INSTALLATION		
VENTILATION REQUIRED	NO	NO
MINIMUM TEMP (DEGREES F)	32 °F	32 °F
MAXIMUM TEMP (DEGREES F)	120 °F	120 °F
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

	100AH, 48V	205AH, 48V
SAFETY FEATURES		
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		
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		
SOC%	✓	✓
VOLTS	✓	✓
CHARGING/DISCHARGING AMPS	✓	✓
BALANCER STATUS	✓	✓
CELL VOLTAGES	✓	✓
FAULTS	✓	✓
PHYSICAL DIMENSIONS & WEIGHT		
BATTERIES PER CRATE	4	2
CRATE DIMENSIONS	40" × 30" × 22"	40" × 30" × 22"
BATTERY DIMENSIONS	SEE DRAWING	SEE DRAWING
BATTERY WEIGHT	117 LB	199 LB
TOTAL CRATE WEIGHT	525 LB	437 LB

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**

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