

ELECTRONICS SPECIFICATION SHEET
(VERSION 1.0)

DESCRIPTION	100AH, 48V	205AH, 48V
MODEL NUMBER	RGS51100	RGS51205
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 PENDING	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

