



SPECIFICATIONS

MODEL RRS51280

VERSION 3.1



RRS51280 48V/280AH

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Model

Energy Rating	51.2V 280Ah (14.336kWh)
Energy Scalability	32 x Parallel (457kWh)

Charging/Discharging

Max Continuous Discharge Power	200A (10.24kW)
Recommended Discharge Power	180A (9.216kW)
Inverter Start-Up Capability	PWM Technology Start-Up
Max Continuous Charging Power	180A (9.216kW)
Peak Charging Power (30 min)	200A (10.24kW)
Recommended Absorb Volts	56.8V
Max Absorb Volts (Solar Only)	57.6V
Absorb Done Amps (per Battery)	4% of capacity
Absorb Done Time	10 min
Float Voltage	54.4V
Temp Comp—mV Degrees Celsius	0
Max Recommended Discharge	51V (20%)
Inverter Low Battery Cutout	48V
Peukert Exponent	1.04

Installation Requirements

Ventilation Required	No
Minimum Environment Temp	32 °F
Maximum Environment Temp	120 °F
IP Rating	IP50
Outdoor Rated	No
Installation Position	Horizontal with Base Unit Only
Maximum Batteries per Stack	4

Terminal Specs

M8 Stainless Steel Dual	Bolt-On
Max Terminal Torque	18 ft-lbs

SPECIFICATIONS, CONTINUED

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Cycle Life Rating

Rated Cycle Life (100% DoD)	3,000 Cycles
Rated Cycle Life (80% DoD)	4,500 Cycles
Rated Cycle Life (50% DoD)	7,000 Cycles
Retained Capacity at End of Cycle Life	80%

Safety Features

Breaker Current Rating	250A
BMS Low Voltage Disconnect	41 +/-1V
BMS High Voltage Disconnect	59 +/-1V
BMS Low Temp Charging Disconnect	32 °F
BMS Low Discharging Disconnect	0 °F
Low Volts Cutout Wakeup	44V
High Volts Cutout Wakeup	55V
BMS High Temp Disconnect	135 °F
Pressure Vented Cells	Yes
Rapid Shut Down Function (RPSD)	Yes

Certifications

Cell Certification	UL 1973
Transport	UN 38.3

Internal Components

Cell Chemistry	LiFePO4
Cell Format	Prismatic
Balancing Type	Impactiv
Max Balancing Current	2A
Cell Connection	Welded busbar

Touchscreen LCD Features

State-of-Charge	Pack Voltage	Charging/Discharging Current
Event Log	Internal Cell Data	Internal Temperatures

Dimensions

Battery with Handles	35.94" × 19.53" × 9.45"
Base	30.28" × 19.53" × 6"
Lid	30.28" × 19.53" × 0.78"

SPECIFICATIONS, CONTINUED

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Spacing

Minimum Spacing between Batteries and Wall	1 inch
Minimum Spacing between Parallel Battery Stacks	1 inch
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

Weight

Battery Weight	271 lb
Base Weight	66.6 lb
Lid Weight	20.8 lb



HOW DOES IT STACK UP?

Each unit provides 14.3kWh.

