



SPECIFICATIONS

MODEL RRS51280

VERSION 3.1



RRS51280 48V/280AH

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VERSION 3.1

support@rubixbattery.com
rubixbattery.com
330-577-8249



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.

