

rubix

R SERIES



SPECIFICATIONS

MODEL RRS51280

VERSION 3.1

**RRS51280 48V/280AH**

SPECIFICATIONS

VERSION 3.1

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



Model

Energy Rating	51.2V 280Ah (14.336kWh)
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Energy Scalability	64 x Parallel (917.5kWh)
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Charging/Discharging

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

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

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

RRS51280 48V/280AH

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	Internet Cell Data	Internal Temperatures

Dimensions

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

SPECIFICATIONS, CONTINUED

RRS51280 48V/280AH

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.



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R SERIES



SPECIFICATIONS

MODEL RRS25560

VERSION 3.1

**RRS25560 24V/560AH**

SPECIFICATIONS

VERSION 3.1

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



Model

Energy Rating 25.6V 560Ah (14.336kWh)

Energy Scalability 64 x Parallel (917.5kWh)

Charging/Discharging

Max Continuous Discharge Power 200A (5.12kW)

Recommended Discharge Power 180A (5.12kW)

Inverter Start-Up Capability PWM Technology Start-Up

Max Continuous Charging Power 200A (5.12kW)

Peak Charging Power (30 min) 240A (6.4kW)

Recommended Absorb Volts 28.4V

Max Absorb Volts (Solar Only) 28.8V

Absorb Done Amps (per Battery) 4% of capacity

Absorb Done Time 10 min

Float Voltage 27.2V

Temp Comp—mV Degrees Celsius 0

Max Recommended Discharge 25.5V (20%)

Inverter Low Battery Cutout 24V

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

RRS25560 24V/560AH

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	300A
BMS Low Voltage Disconnect	20.5 +/-1V
BMS High Voltage Disconnect	29.5 +/-1V
BMS Low Temp Charging Disconnect	32 °F
BMS Low Discharging Disconnect	0 °F
Low Volts Cutout Wakeup	22V
High Volts Cutout Wakeup	27.5V
BMS High Temp Disconnect	135 °F
Pressure Vented Cells	Yes
Rapid Shut Down Function (RPSD)	No, but supported

Certifications

Cell Certification	UL 1973
Transport	UN 38.3

Internal Components

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

Touchscreen LCD Features

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

Dimensions

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

SPECIFICATIONS, CONTINUED

RRS25560 24V/560AH

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.

