



# 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)

Energy Scalability 64 × Parallel (917.5kWh)

### 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

**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       | 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

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.





# 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 × 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       | Internal Cell Data | Internal Temperatures        |

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## Spacing

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|--------------------------------------------------------------------------|----------|
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| Minimum Spacing between Parallel Battery Stacks                          | 1 inch   |
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| Minimum Spacing between Battery Bank and Water Sources/Conductors        | 4 feet   |

## Weight

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|----------------|---------|
| Battery Weight | 271 lb  |
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## HOW DOES IT STACK UP?

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