Rubix, Stackable Battery Power Storage

Rubix batteries make home power backup more effective than ever.

"Storage Solved"

Safety

Our batteries are made with LFP (Lithium Iron Phosphate). This formula is heavier than others, but is much safer and has a longer lifespan. Avoid recalls and insurance claims. Your battery should help your home, not burden it.

Sizing

Our batteries are modular, meaning you can stack them like blocks. This enables custom sizing depending on your desire/needs and makes future expansion very easy and cost- effective. Each module is 5.0 kWh giving you a range of 5.0- 30 kWh per Stack.



Concept

Store your power for later use. A home battery can not only reduce your utility bill, but also allow you to take your home off-grid. Store the renewable energy you harness from wind/solar to further benefit your home and environment.

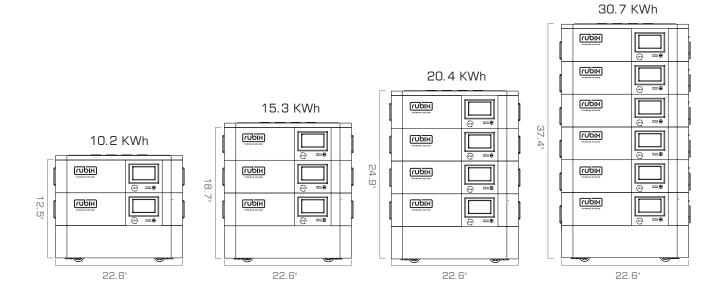
Actual Customer Support. No overseas call center needed Each unit can function independently

Safe
Robust
Expandable
No maintenance
10 year warranty
Design Life: 14+ years
Real-world proof of durability















48V Battery



Individual Battery Modules





Sales * Service * Installations

Solar & Electrical Power Solutions

717-768-7796





contact details

- **&** 888-662-7522
- **♦** 855-629-5484
- support@rubixbattery.com● www.rubixbattery.com

SPEC SHEET

(Version 1.0)

Energy Rating	Model	RS-51100(48V100Ah)	RS-25200(24V200Ah)
Max Continues Discharge power	Energy Rating	51.2V 100AHh (5.12kwh)	25.6V 200AHh (5.12kwh)
Max Continues Discharge power 9DA (4, 5kw) 180A (4,6kw) Recommended Discharge power 75A (3,84kw) 150A (3,84kw) Peak Discharge Power (Sased) 200A (10,2kw) 400A (20,4kw) Max Continues Charging Power 70A (3,58kw) 140A (3,58kw) Peak Charging Power (30min) 80A (4kw) 160A (4kw) Recommended Absorb Volts 56.8V 28.4V Max Absorb Volts (Solar Only) 57.6V 28.8V Absorb Done Amps (Per Battery) 5A 5A Absorb Done Time 10min 10min Finat Voltage 54.4V 27.2V Temp Comp-MV Degrees Celsius 0 0 Max Recommended Discharge 51V (20%) 25.5V (20%) Inverter Low Battery Cutout 48V 24V Low Volts Cutout Wakeup 44V 22V High Volts Cutout Wakeup 55V 27.5V Installation Required NO NO Minimum Environment Temp 32° F 32° F Maximum Environment Temp 120° F 120° F IPSO 1P50	Energy Scalability	32 x Parallel (163.84kwh)	32 x Parallel (163.84kwh)
Recommended Discharge power 75A (3.84kw) 150A (3.84kw) Peak Discharge Power (3sec) 200A (10.2kw) 400A (20.4kw) 400A (20.4kw) Max Continues Charging Power 70A (3.58kw) 140A (3.58kw) 140	Charging/Discharging		
Peak Discharge Power (Sised) 200A (10.2kw) 400A (20.4kw) Max Continues Charging Power 70A (3.58kw) 140A (3.58kw) Peak Charging Power (30min) 80A (4kw) 150A (4kw) Recommended Absorb Volts 55.8V 28.4V Max Absorb Volts (Solar Only) 57.6V 28.8V Absorb Done Amps (Per Battery) 5A 5A Absorb Done Time 10min 10min Float Voltage 54.4V 27.2V Temp Comp-MV Degrees Celsius 0 0 Max Recommended Discharge 51V (20%) 25.5V (20%) Inverter Low Battery Cutout 48V 24V Low Volts Cutout Wakeup 44V 22V High Volts Cutout Wakeup 55V 27.5V Installation Requirements Ventilation Requirements Ventilation Requirement Temp 32° F 32° F Maximum Environment Temp 120° F 120° F IP Rating IP50 IP50 Outdoor Rated NO NO Installation Position Herizontal with base unit only Maximum Batteries Per Stack 6 6 Terminal Specs Bolt-on Bolt-on Max Terminal Torque 20° LBS 20° LBS Cycle Life Rating Red Cycle Life (100% DOD) 4500 cycles 4500 cycles Rated Cycle Life (100% DOD) 7000 cycles 7000 cycles	Max Continues Discharge power	90A (4.6kw)	180A (4.6kw)
Max Continues Charging Power 70A (3.58kw) 140A (3.58kw) Peak Charging Power (30min) 80A (4kw) 160A (4kw) Recommended Absorb Volts 56.8V 28.4V Max Absorb Volts (Soler Only) 57.6V 28.8V Absorb Done Amps (Per Battery) 5A 5A Absorb Done Time 10min 10min Float Voltage 54.4V 27.2V Temp Comp.MV Degrees Celsius 0 0 Max Recommended Discharge 51V (20%) 25.5V (20%) Inverter Low Battery Cutout 48V 24V Low Volts Cutout Wakeup 44V 22V High Volts Cutout Wakeup 55V 27.5V Installation Requirements NO NO Ventilation Requirements NO NO Minimum Environment Temp 32° F 32° F Maximum Environment Temp 120° F 120° F IP Rating IP5O IP5O Outdoor Rated NO NO Maximum Batteries Per Stack 6 6 Terminal Specs	Recommended Discharge power	75A (3.84kw)	150A (3.84kw)
Peak Charging Power (30min) 80A (4kw) 160A (4kw) Recommended Absorb Volts 56.8V 28.4V Max Absorb Volts (Solar Only) 57.6V 28.8V Absorb Done Amps Per Battery) 5A 5A Absorb Done Amps Per Battery) 5A 5A Absorb Done Time 10min 10min Float Voltage 54.4V 27.2V Temp Comp-MV Degrees Celsius 0 0 Max Recommended Discharge 51V (20%) 25.5V (20%) Inverter Low Battery Cutout 4BV 24V Low Volts Cutout Wakeup 44V 22V High Volts Cutout Wakeup 55V 27.5V Installation Requirements Ventilation Requirement Temp 32° F 32° F Maximum Environment Temp 120° F 120° F IP Rating IPSO IPSO Outdoor Rated NO NO Installation Position Horizontal with base unit only Maximum Batteries Per Stack 6 6 Terminal Specs MB Stainless Steel Bolt-on Bolt-on Max Terminal Torque 20°t-LBS 20°t-LBS Cycle Life (100% DOD) 3000 cycles 3000 cycles Rated Cycle Life (50% DOD) 4500 cycles 7000 cycles Rated Cycle Life (50% DOD) 7000 cycles 7000 cycles	Peak Discharge Power (3sec)	200A (10.2kw)	400A (20.4kw)
Recommended Absorb Volts 56.8V 28.4V	Max Continues Charging Power	70A (3.58kw)	140A (3.58kw)
Max Absorb Volts (Solar Only) 57.6V 28.8V Absorb Done Amps (Per Battery) 5A 5A Absorb Done Time 10min 10min Float Voltage 54.4V 27.2V Temp Comp-MV Degrees Celsius 0 0 Max Recommended Discharge 51V (20%) 25.5V (20%) Inverter Low Battery Cutout 48V 24V Low Volts Cutout Wakeup 44V 22V High Volts Cutout Wakeup 55V 27.5V Installation Requirements Ventilation Requirements Ventilation Requirement Temp 32° F 32° F Maximum Environment Temp 120° F 120° F IP Rating IP50 IP50 Outdoor Rated NO NO Installation Position Horizontal with base unit only Maximum Batteries Per Stack 6 6 Terminal Specs Bolt-on Bolt-on MB Stainless Steel Bolt-on Bolt-on Max Terminal Torque 20ft-LBS 20ft-LBS Cycle Life (80% DOD) 4500 cycles	Peak Charging Power (30min)	80A (4kw)	160A (4kw)
Absorb Done Amps (Per Battery) 5A 5A Absorb Done Time 10min 10min Float Voltage 54.4V 27.2V Temp Comp-MV Degrees Celsius 0 0 Max Recommended Discharge 51V (20%) 25.5V (20%) Inverter Low Battery Cutout 48V 24V Low Volts Cutout Wakeup 44V 22V High Volts Cutout Wakeup 55V 27.5V Installation Requirements Ventilation Requirements Ventilation Required NO NO Minimum Environment Temp 32° F 32° F Maximum Environment Temp 120° F 120° F IP Rating IP5O IP5O Outdoor Rated NO NO Installation Position Horizontal with base unit only Maximum Batteries Per Stack 6 6 Terminal Specs Bolt-on Bolt-on MB Stainless Steel Bolt-on Bolt-on Max Terminal Torque 20ft-LBS 20ft-LBS Cycle Life (80% DOD) 4500 cycles 4	Recommended Absorb Volts	56.8V	28.4V
Absorb Done Time	Max Absorb Volts (Solar Only)	57.6V	28.8V
Float Voltage	Absorb Done Amps (Per Battery)	5A	5A
Temp Comp-MV Degrees Celsius	Absorb Done Time	10min	10min
Max Recommended Discharge 51V (20%) 25.5V (20%) Inverter Low Battery Cutout 48V 24V Low Volts Cutout Wakeup 44V 22V High Volts Cutout Wakeup 55V 27.5V Installation Requirements Ventilation Required NO NO Minimum Environment Temp 32° F 32° F Maximum Environment Temp 120° F 120° F IP Rating IP50 IP50 Outdoor Rated NO NO Installation Position Horizontal with base unit only Maximum Batteries Per Stack 6 6 Terminal Specs Bolt-on Bolt-on Max Terminal Torque 20ft-LBS 20ft-LBS Cycle Life Rating 3000 cycles 3000 cycles Rated Cycle Life (80% DOD) 4500 cycles 4500 cycles Rated Cycle Life (50% DOD) 7000 cycles 7000 cycles	Float Voltage	54.4V	27.2V
Inverter Low Battery Cutout	Temp Comp-MV Degrees Celsius	0	0
Low Volts Cutout Wakeup	Max Recommended Discharge	51V (20%)	25.5V (20%)
High Volts Cutout Wakeup 55V 27.5V Installation Requirements	Inverter Low Battery Cutout	48V	24V
Installation Requirements NO NO Ventilation Required NO NO Minimum Environment Temp 32° F 32° F Maximum Environment Temp 120° F 120° F IP Rating IP50 IP50 Outdoor Rated NO NO Installation Position Horizontal with base unit only Maximum Batteries Per Stack 6 6 Terminal Specs 8 6 M8 Stainless Steel Bolt-on Bolt-on Max Terminal Torque 20ft-LBS 20ft-LBS Cycle Life Rating Rated Cycle Life (100% DOD) 3000 cycles 3000 cycles Rated Cycle Life (80% DOD) 4500 cycles 4500 cycles Rated Cycle Life (50% DOD) 7000 cycles 7000 cycles	Low Volts Cutout Wakeup	44V	22V
Ventilation Required NO NO Minimum Environment Temp 32° F 32° F Maximum Environment Temp 120° F 120° F IP Rating IP50 IP50 Outdoor Rated NO NO Installation Position Horizontal with base unit only Maximum Batteries Per Stack 6 6 Terminal Specs Bolt-on Bolt-on Max Terminal Torque 20ft-LBS 20ft-LBS Cycle Life Rating Rated Cycle Life (100% DOD) 3000 cycles 3000 cycles Rated Cycle Life (80% DOD) 4500 cycles 4500 cycles Rated Cycle Life (50% DOD) 7000 cycles 7000 cycles	High Volts Cutout Wakeup	55V	27.5V
Minimum Environment Temp 32° F 32° F Maximum Environment Temp 120° F 120° F IP Rating IP50 IP50 Outdoor Rated NO NO Installation Position Horizontal with base unit only Maximum Batteries Per Stack 6 6 Terminal Specs 6 6 M8 Stainless Steel Bolt-on Bolt-on Max Terminal Torque 20ft-LBS 20ft-LBS Cycle Life Rating Saccompany of the property	Installation Requirements		
Maximum Environment Temp 120° F 120° F IP Rating IP50 IP50 Outdoor Rated NO NO Installation Position Horizontal with base unit only Maximum Batteries Per Stack 6 6 Terminal Specs Bolt-on Bolt-on M8 Stainless Steel Bolt-on 20ft-LBS Cycle Life Rating 20ft-LBS 20ft-LBS Rated Cycle Life (100% DOD) 3000 cycles 3000 cycles Rated Cycle Life (80% DOD) 4500 cycles 4500 cycles Rated Cycle Life (50% DOD) 7000 cycles 7000 cycles	Ventilation Required	NO	NO
IP Rating IP50 IP50 Outdoor Rated NO NO Installation Position Horizontal with base unit only Maximum Batteries Per Stack 6 6 Terminal Specs M8 Stainless Steel Bolt-on Bolt-on Max Terminal Torque 20ft-LBS 20ft-LBS Cycle Life Rating Rated Cycle Life (100% DOD) 3000 cycles 3000 cycles Rated Cycle Life (80% DOD) 4500 cycles 7000 cycles	Minimum Environment Temp	32° F	32° F
Outdoor Rated NO NO Installation Position Horizontal with base unit only Maximum Batteries Per Stack 6 6 Terminal Specs M8 Stainless Steel Bolt-on Bolt-on Max Terminal Torque 20ft-LBS 20ft-LBS Cycle Life Rating Rated Cycle Life (100% DOD) 3000 cycles 3000 cycles Rated Cycle Life (80% DOD) 4500 cycles 7000 cycles	Maximum Environment Temp	120° F	120° F
Installation Position Horizontal with base unit only Maximum Batteries Per Stack 6 Terminal Specs M8 Stainless Steel Bolt-on Bolt-on Max Terminal Torque 20ft-LBS 20ft-LBS Cycle Life Rating Rated Cycle Life (100% DOD) 3000 cycles 4500 cycles Rated Cycle Life (50% DOD) 7000 cycles 7000 cycles	IP Rating	IP50	IP50
Maximum Batteries Per Stack 6 6 Terminal Specs M8 Stainless Steel Bolt-on Bolt-on Max Terminal Torque 20ft-LBS 20ft-LBS Cycle Life Rating Rated Cycle Life (100% DOD) 3000 cycles 3000 cycles Rated Cycle Life (80% DOD) 4500 cycles 4500 cycles Rated Cycle Life (50% DOD) 7000 cycles 7000 cycles	Outdoor Rated	NO	NO
Terminal Specs M8 Stainless Steel Bolt-on Bolt-on Max Terminal Torque 20ft-LBS 20ft-LBS Cycle Life Rating Rated Cycle Life (100% DOD) 3000 cycles 3000 cycles Rated Cycle Life (80% DOD) 4500 cycles 4500 cycles Rated Cycle Life (50% DOD) 7000 cycles 7000 cycles	Installation Position	Horizontal with base unit only	
M8 Stainless Steel Bolt-on Bolt-on Max Terminal Torque 20ft-LBS 20ft-LBS Cycle Life Rating Rated Cycle Life (100% DOD) 3000 cycles 3000 cycles Rated Cycle Life (80% DOD) 4500 cycles 4500 cycles Rated Cycle Life (50% DOD) 7000 cycles 7000 cycles	Maximum Batteries Per Stack	6	6
Max Terminal Torque 20ft-LBS 20ft-LBS Cycle Life Rating 3000 cycles Rated Cycle Life (100% DOD) 3000 cycles 3000 cycles Rated Cycle Life (80% DOD) 4500 cycles 4500 cycles Rated Cycle Life (50% DOD) 7000 cycles 7000 cycles	Terminal Specs		
Cycle Life Rating Rated Cycle Life (100% DOD) 3000 cycles 3000 cycles Rated Cycle Life (80% DOD) 4500 cycles 4500 cycles Rated Cycle Life (50% DOD) 7000 cycles 7000 cycles	M8 Stainless Steel	Bolt-on	Bolt-on
Rated Cycle Life (100% DOD) 3000 cycles 3000 cycles Rated Cycle Life (80% DOD) 4500 cycles 4500 cycles Rated Cycle Life (50% DOD) 7000 cycles 7000 cycles	Max Terminal Torque	20ft-LBS	20ft-LBS
Rated Cycle Life (80% DOD) 4500 cycles 4500 cycles Rated Cycle Life (50% DOD) 7000 cycles 7000 cycles	Cycle Life Rating		
Rated Cycle Life (50% DOD) 7000 cycles 7000 cycles	Rated Cycle Life (100% DOD)	3000 cycles	3000 cycles
	Rated Cycle Life (80% DOD)	4500 cycles	4500 cycles
Retained Capacity at end of Cycle Life 80% 80%	Rated Cycle Life (50% DOD)	7000 cycles	7000 cycles
	Retained Capacity at end of Cycle Life	80%	80%



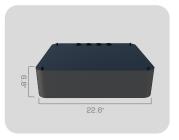
Safety Features		
Breaker Current Rating	150A	250A
BMS Low Voltage Disconnect	41+/-1V	20.5+/-1V
BMS High Voltage Disconnect	59+/-1V	29.5+/-1V
BMS Low Temp Charging Disconnect	32° F	32° F
BMS Low Temp Discharging Disconnect	-0° F	-0° F
BMS High Temp Disconnect	135° F	135° F
Pressure Vented Cells	Yes	Yes
Rapid Shut Down Function (RPSD)	Yes	Yes
Certifications		
Battery Certifications	Pending UL 9540A	_
Transport	UN 38.3	UN 38.3
Internal Components		
Cell Chemistry	LiFePO4	LiFePO4
Cell Format	Prismatic	Prismatic
Balancing Type	Impactive	Impactive
Max Balancing Current	1.1A	1.1A
Cell Connection	Welded Bus Bar	Welded Bus Bar
Touchscreen LCD Features		
State-of-Charge	Yes	Yes
Pack Voltage	Yes	Yes
Charging/Discharging Current	Yes	Yes
Individual Cell Voltage	Yes	Yes
Fault Logging	Yes	Yes
Inverter Com. Selection	Yes	Yes
Physical Dimensions		
Battery	22.6"x19.3"x6.2"	22.6"x19.3"x6.2"
Base	22.6"x19.3"x6.8"	22.6"x19.3"x6.8"
Lid	22.6"x19.3"x0.8"	22.6"x19.3"x0.8"
Weight		
Battery	108lb	108lb
Base	42lb	42lb
Lid	20.9lb	20.9lb



48V100Ah/24V200Ah (Internal View)



48V100Ah/24V200Ah (Lid sizes)



48V100Ah/24V200Ah (Base sizes)