



# SR5K-UL Data Sheet

The SR5K-UL is a rack-mount battery module for residential and light commercial use. It uses high-quality lithium iron phosphate (LFP) battery cells with an advanced battery management system (BMS) to provide safe and reliable energy storage for solar self-consumption, time-based control, and backup.

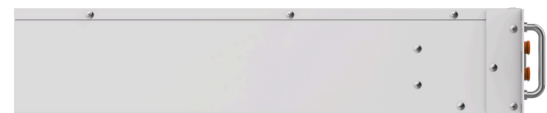
## Advanced Features:

- LCD screen for monitoring & programming
- Integrated Fire Arrestors
- Emergency Rapid Shutdown Function
- Automatic Battery Heaters
- Parallel up to 64 units with closed-loop communication

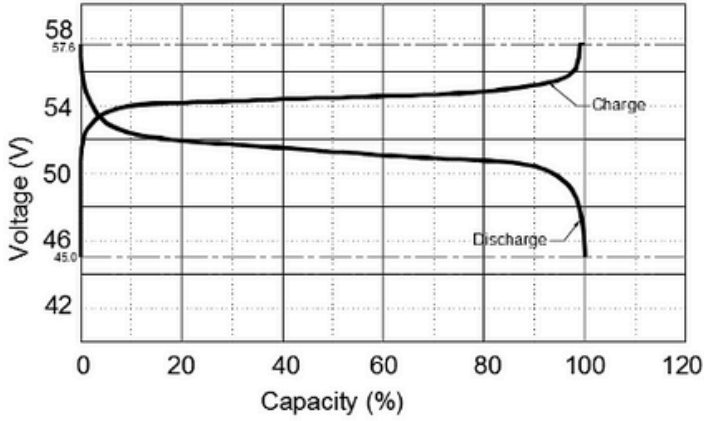
## Specifications

Model	SR5K-UL
Chemistry	Lithium Iron Phosphate (LiFePO4)
Nominal Voltage	51.2 VDC
Voltage Range	47.5 VDC to 58 VDC
Nominal Capacity	100 Ah
Energy Capacity	5 kWh*
Unit Dimensions (L x W x H)	17.4" x 18.5" x 5.51"
Unit Weight	99.2 lbs
Maximum Continuous Discharge Current	100 A
Standard Continuous Discharge Rate	90 A
Maximum Continuous Charge Current	100 A
Standard Continuous Charge Current	30 A
Round-Trip Efficiency	≥95%
Communication Protocol	RS232, RS485, CAN
Cycle Life	≥6000 cycles @ 80% DOD
Battery Lifespan	≥15 years
Connection Type	Parallel (up to 64)
Temperature Range for Charging	32 to 113°F
Temperature Range for Discharging	-4 to 122°F
Certifications:	UL1973, UL9540A, UN38.3
Warranty	10 years; 15 year optional

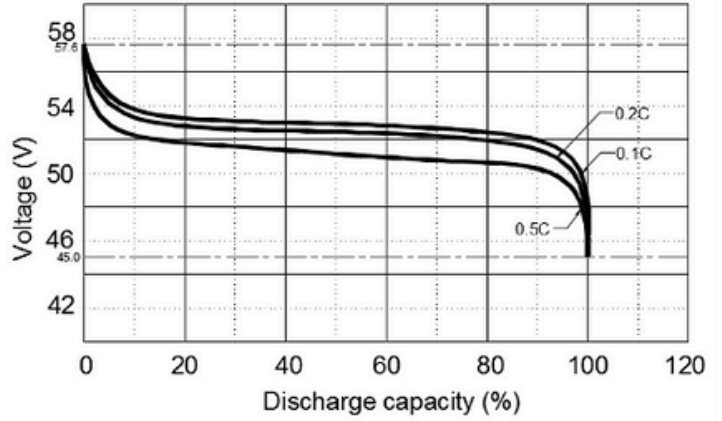
\*Based on Usable Energy



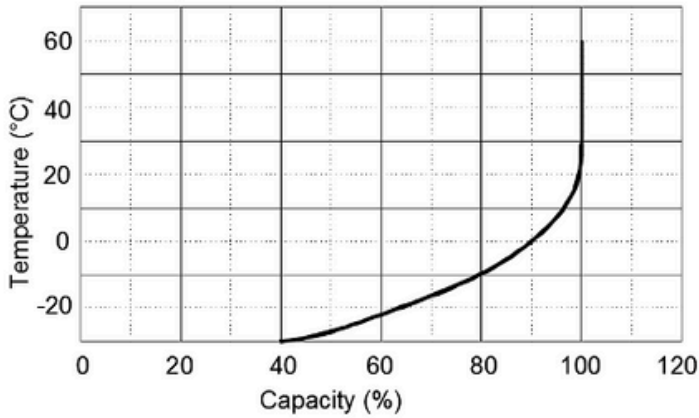
Charge & Discharge curve with 0.5C @ 25°C



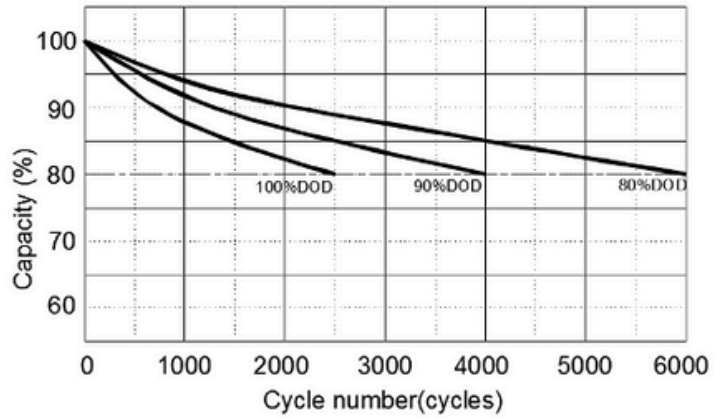
Discharge performance with different rate @ 25°C



Discharge capacity with different temperature @ 0.5C



Cycle life with DOD @ 0.5C, 25°C



Self-discharge @ different temperature

