

SR5K-UL Battery Module Sol-Ark 12K Data Sheet

The SR5K-UL Battery Module / Sol-Ark 12K is a battery energy storage system (BESS) for residential use. Its rechargeable lithium iron phosphate (LFP) battery modules provide safe and reliable energy storage for solar self-consumption, time-based control, and home backup.

The system is outdoor-rated, simple to install and compatible with most low voltage (48V) inverters from the industry's leading manufactures, including Sol-Ark, SMA, Schneider, Outback, Megarevo and others.





Solar

Max Allowed PV PowerAMax DC Voltage (Voc)5MPPT Voltage Range1Starting Voltage1Number of MPPT2Max Solar Strings Per MPPT2Max DC Current per MPPT (Self Limiting)2Max AC Coupled Input (Micro/String Inverters)9

AC Output Power

Connections Continuous AC Power to Grid (On-Grid) Continuous AC Power to Load (OffGrid) Surge AC Power 10sec Surge AC Power 100ms Parallel Stacking Frequency Continuous AC Power with Grid or Generator CEC Efficiency Idle Consumption Typical—No Load Sell Back Power Modes Design (DC to AC) Response Time (Grid-Tied to Off-Grid) Power Factor

General

Inverter Dimensions (H x W x D) Cabinet Dimensions (H x W x D) Inverter Weight Cabinet Weight with Batteries Inverter Enclosure Cabinet Enclosure Ambient Temperature (Inverter) Inverter Installation Style Cabinet Installation Style Wi-Fi & LAN Communication Standard Warranty 6500W + 6500W = 13000W 500V @ 18A, 450V @ 20A 150-425V 225V 2 20A 9600W

120/240/208V Split Phase 9000W 37.5A-L (240V) 9000W 37.5A-L (240V) 16,000VA L-L (240V) 25,000VA L-L(240V) Yes 60/50Hz 15120W 63A L-L (240V) 96.5% (Peak 97.5%) 60W Limited to House/Fully Grid-Tied Transformerless DC 4ms +/- 0.9 - 1.0

30.0" x 18.3" x 10.0" 50.5" x 29.7" x 20.9" 78 lbs 847 lbs NEMA 3R IP55 -13 to 131°F, >113°F Derating Wall-Mounted Floor-Mounted Included 10 Years

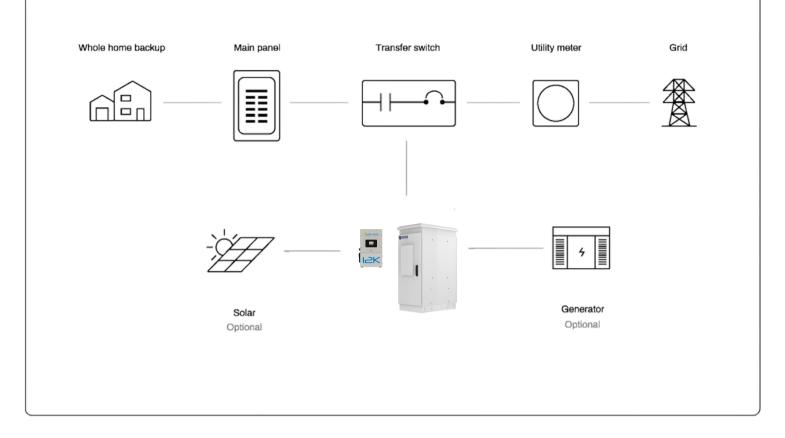
Specifications

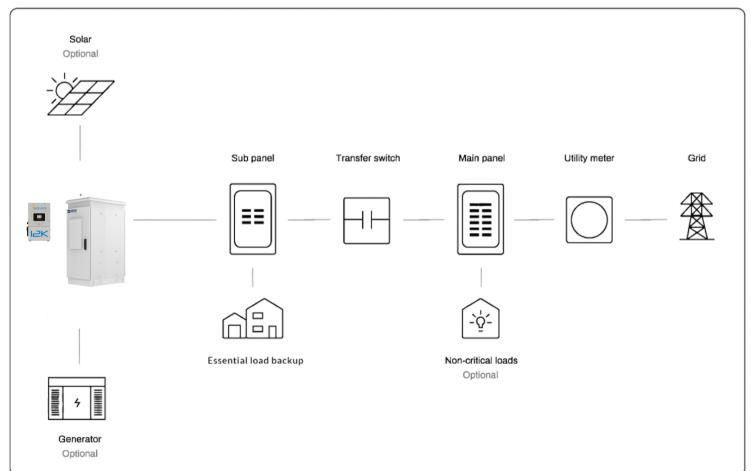
Type (Chemistry) Nominal Voltage: Voltage Range: Nominal Capacity: Nominal Energy: Peak Discharge Rate: Maximum Continuous Discharge Rate: Standard Continuous Discharge Rate: Maximum Continuous Charge Current: Standard Continuous Charge Current: Round-Trip Efficiency: Communication Protocol: Battery Connection Type: Cycle Life: Battery Lifespan: Temperature Range for Charging: Temperature Range for Discharging: Ambient Temperature for Operation: Conduit Knockouts:

Lithium Iron Phosphate (LiFePO4) 51.2 VDC 47.5 to 58 VDC up to 600 Ah up to 30.72 kWh 31.32 kW @ 15s (1C) (5.22 kW/module) 300 A (15.36 kW DC) (50A/module) 300 A (15.36 kW DC) (50A/module) 300 A (50A/module) 300A (50A/module) >95% RS232, RS485, CAN Parallel ≥6000 cycles @ 90% DOD ≥15 years 32 to 122°F 14 to 122°F 32 to 95°F 1.5", 1.0" (2x), 0.75" (2x), 0.5" (2x)

Protections & Certifications

• Electronics Certified Safety by SGS Labs to NEC & Yes UL Specs - NEC 690.4B & NEC 705.4/6 Grid Sell Back - UL1741-2010/2018, IEEE1547a-Yes 2003/2014, FCC 15 Class B, UL1741SA, Certified to UI 9540.2020 Yes PV DC Disconnect Switch – NEC 240.15 Integrated . Ground Fault Detection - NEC 690.5 Integrated PV Rapid Shutdown Control - NEC 690.12 . Integrated PV Arc Fault Detection - NEC 690.11 Integrated **PV Input Lightning Protection** Integrated PV String Input Reverse Polarity Protection Integrated . AC Output Breakers - 63A Integrated • 250A Battery Breaker / Disconnect Integrated Surge Protection DC & AC Type II







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