

risen

Risen Stack1 Modular Energy Storage System



Efficient Backup

Flexible for Multiple Scenarios
48~120kWh Single Device Capacity
60kW High Power



Ultimate Safety

PACK-Level Active Fault Isolation
0V Maintenance Port
PACK-Level Explosion Vent + Fire Suppression



Quick O&M

Modular Design
Ultra-fast 30-Minute Installation
Independent TM



Multiple Intelligence

Risen Cloud
Modular Control
Customizable App Features



Technical Specification

Model	SU48E24LM	SU60E30LM	SU72E36LM	SU84E42LM	SU96E48LM	SU108E54LM	SU120E60LM
Inverter Information							
Rated Power	24kW	30kW	36kW	42kW	48kW	54kW	60kW
Rated And Max Apparent Power	24kVA	30kVA	36kVA	42kVA	48kVA	54kVA	60kVA
Rated Voltage	3W+N+PE, 230/400V						
Rated Current	35A	43A	52A	61A	69A	78A	86A
Rated Frequency	50Hz						
Total Harmonic Distortion (THD)	<3%						
Connection Configuration	3P4L						
Inverter Topology	Transformerless						
Power Factor	0.8 un -0.8 ov						
Anti-islanding Method	Passive						
Inverter Max Efficiency	98.50%						
Unbalanced Load	100%						
Inverter Weight	100±5kg						
Inverter Dimensions(W*H*D)	1200*500*340mm						
Battery Information							
Rated Capacity	48kWh	60kWh	72kWh	84kWh	96kWh	108kWh	120kWh
Rated Voltage	153.6V	192V	230.4V	268.8V	307.2V	345.6V	384V
Voltage Range	134.4~172.8V	168~216V	201.6~259.2V	235.2~302.4V	268.8~345.6V	302.4~388.8V	336~432V
Usable Capacity	48kWh	60kWh	72kWh	84kWh	96kWh	108kWh	120kWh
Number of Battery Packs	4	5	6	7	8	9	10
Capacity Per Pack	12 kWh						
Cell	LFP-314Ah						
DoD	100%DOD (2.8-3.6V, 25°C) 98%DOD (2.5~3.65V, 25°C)						
C- Rate	0.5P						
Battery Max Charge/Discharge Current	178A						
Cycle Life	7000 cycles, 70% SOH						
Battery Pack Weight	90±5kg						
Battery Pack Dimensions (W*H*D)	568*500*260mm						
System Information							
Number of Battery Packs per PCS	4 ~ 10 (scalable based on system design)						
Max Number of Parrellel Units	Off-grid mode: Supports parallel connection of up to 4 units. Grid-connected mode: Allows virtually unlimited parallel expansion.						
General Information							
Total Weight	510kg	620kg	690kg	800kg	870kg	980kg	1050kg
Overall Dimensions(W*H*D)	1200*1110*500mm	1200*1370*500mm	1200*1370*500mm	1200*1630*500mm	1200*1630*500mm	1200*1890*500mm	1200*1890*500mm
Safety Protection Feature	Class I						
Overvoltage Category	CAT III						
Input Start Up Voltage	150 V						
Protection Level	IP55 System-level (IP65 Energy Block)						
Cooling Method	Natural Air Cooling、Forced Air Cooling、Air Conditioning Cooling (Optional)						
Fire Extinguishing System	Aerosol						
Corrosion Resistance Level	C4						
Operating Temperature Range	-25°C~55°C (> 45°C Derating)						
Maximum Operating Altitude	2000m						
Relative Humidity Range	0%~95%						
Noise Level	≤75dB						
Installation Method	Floor-standing						
Communication Protocol	Modbus-TCP / Modbus-RTU						
Communication Interface	4G / LAN / RS485						
Standard	IEC61000, IEC62619, IEC62477, IEC63056, IEC62040, AS/NZS4777.2, CE, CEC						
Warranty	Energy Block: 4 years; Air Plenum / Air Conditioning Unit: 2 years; Energy Router: 2 years;						
Country Of Manufacture	China						

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