

risen

Grida Series Air-Cooled Stackable Microgrid Cabinet



Efficient Integration • All-in-One Functionality



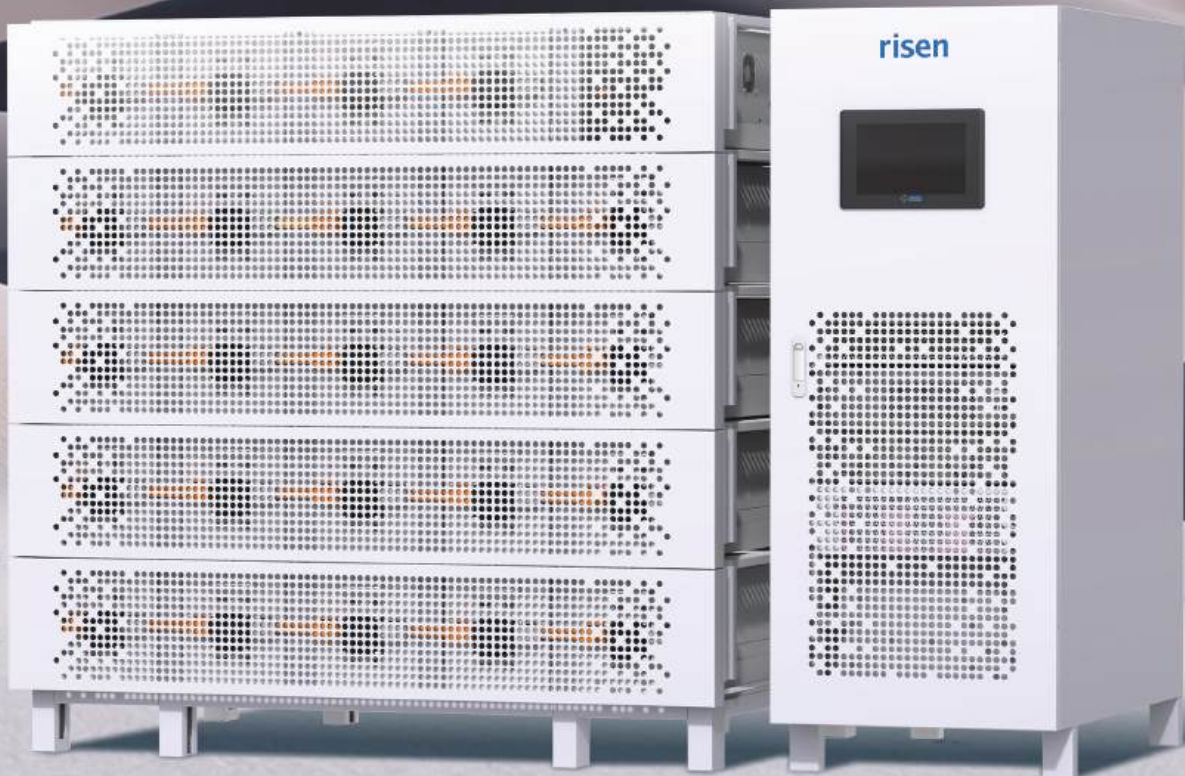
Reliable Power • Fast Backup

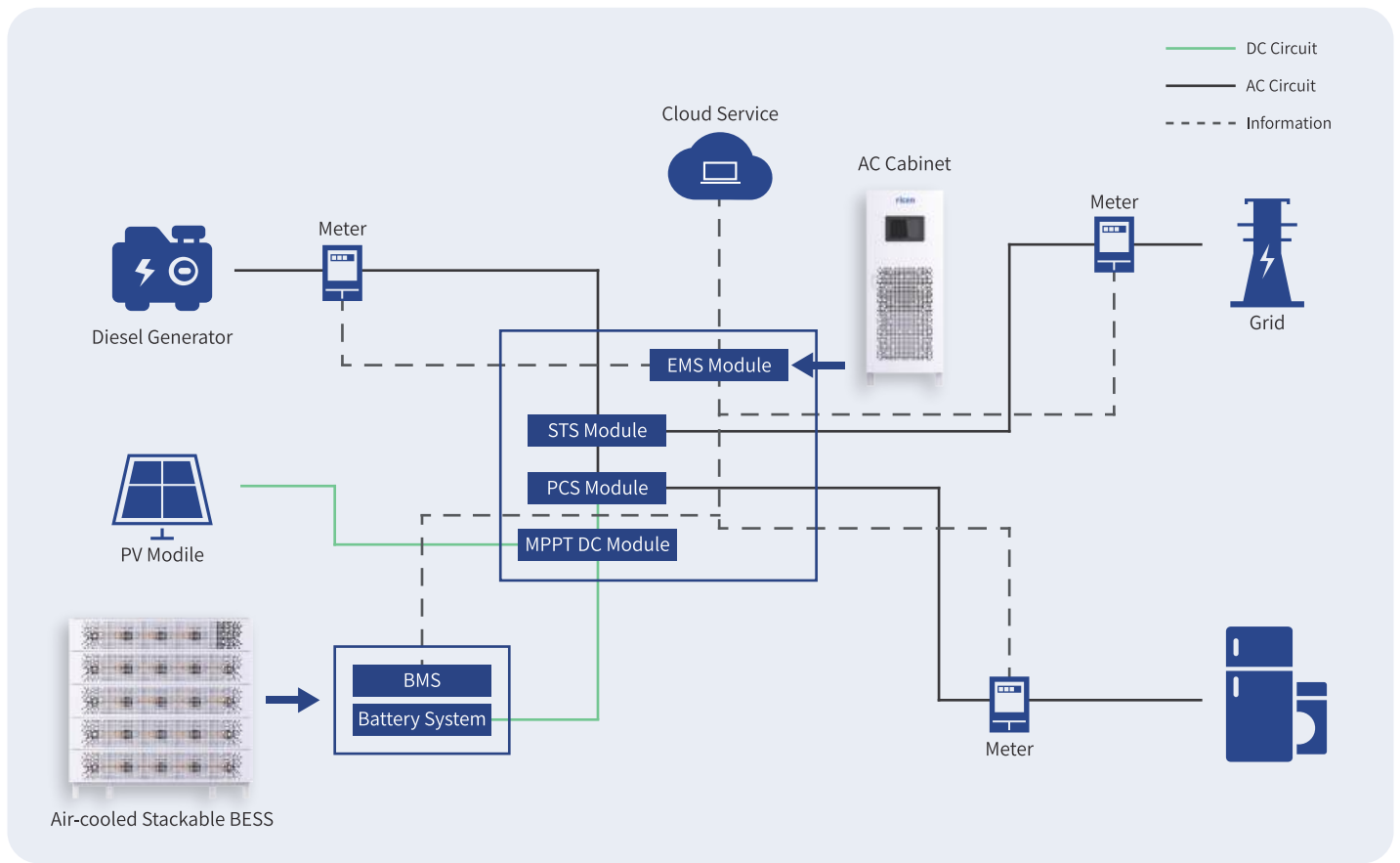


Flexible Scalability • Broad Compatibility



Simplified Installation • Easy Maintenance





Technical Specification

AC Cabinet	SP100ELL03	SP100ELL04	SP100ELL05	SP100ELL06	SP100ELL07	SP100ELL08	SP100ELL09
System Configuration	PCS+MPPT*1	PCS+MPPT*2	PCS+MPPT*3	PCS+STS+MPPT*1	PCS+STS+MPPT*2	PCS+STS+MPPT*3	PCS+STS
Protection Degree	IP20						
Dimensions (W*H*D)	572*1477*993mm						
Communication	RS485/CAN/Ethernet						
PCS							
Max.DC Working	1000V						
Min.DC Working	580V						
DC Working Voltage	580~1000V						
DC Max Current	173A						
AC Power (On Grid)	100kW						
Max.Power (On Grid)	120kW						
Rated Current (On Grid)	145A						
Maximum Current (On Grid)	174A						
Rated Voltage (On Grid)	400V						
Voltage Range (On Grid)	300~460V						
Rated Frequency (On Grid)	50 Hz / 60 Hz						
THDi (On Grid)	< 3% (Rated Power)						
Power Factor (On Grid)	> 0.99						
Factor Range (On Grid)	-1~1						
Overload Capacity (On Grid)	1.2Pn, 1min						
Operating Mode	On-grid / Off-grid			Grid-connected & Islanding Switching			
Rated Voltage (Off Grid)	400VAC						
Voltage Range (Off Grid)	±2%						
Power Factor (Off Grid)	< 3% (Linear Load)						
Rated Frequency	50 Hz / 60 Hz						
Isolation Method	Non-isolated						
Wiring Method	3P4W						
Maximum Efficiency	98.90%						
Operating Temperature Range	-30°C~55°C (> 45°C Derating)						
Maximum Operating Altitude	3000m (> 2000m, Derating)						
Dimensions (W*H*D)	444*220*720mm						

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PCS							
Weight	≤58kg						
Cooling Method	Intelligent Air Cooling						
DC Reverse Protection	Yes						
AC Short Circuit Protection	Yes						
AC Overcurrent Protection	Yes						
Surge Protection	Type II						
Insulation Impedance Monitoring	Yes						
Temperature Protection	Yes						
MPPT							
Rated Power(LV Side)	4 Circuits×15kW						
Rated Current(LV Side)	4 Circuits×45A						
Rated Voltage(LV Side)	350V						
Maximum Voltage(LV Side)	1000V						
Voltage Range(LV Side)	150~1000V						
Full Power Minimum Voltage(LV Side)	340V						
Start-up Voltage(LV Side)	150V						
Rated Power(HV Side)	60kW	120kW	180kW	60kW	120kW	180kW	
Rated Current(HV Side)	100A						
Rated Voltage(HV Side)	600V						
Maximum Voltage(HV Side)	1000V						
Voltage Range(HV Side)	350~1000V						
Full Power Voltage(HV Side)	600~950V						
Start-up Voltage(HV Side)	350V						
Isolation Method	Non-isolated						
Protection Degree	IP20						
Humidity	< 95% (No Condensation)						
Maximum Operating Altitude	3000m (> 2000m Derating)						
Maximum Efficiency	99%						
Cooling Method	Intelligent Air Cooling						
Operating Temperature Range	-30°C~55°C (> 45°C Derating)						
Basic Working Mode	MPPT, Power Limited Operation						
Circuit Operation Mode	4 Circuits Independent MPPT, any 2 Circuits Parallel MPPT						
Display	LED						
Weight	25kg						
Dimensions (W*H*D)	444*130*550mm						
Number of Accessible Modules	1, Expandable to 3						
Standards	IEC62109-1, IEC 61000-6-2, IEC 61000-6-4						
Reverse Protection	Yes						
Fuse Protection	Yes						
Overcurrent Protection	Yes						
Over and Undervoltage Protection	Yes						
Overheat Protection	Yes						
LV Short Circuit Protection	Yes						
Insulation Impedance Monitoring	Yes						
Overvoltage Level	Type II						
Surge Protection	Type II						
STS							
Grid-side Rated Power	200kW						
Grid-side Rated Current	304A						
PCS-side Power	100kW						
Load-side Power	100kW						
Grid-side Rated Voltage	400VAC						
Grid-side Voltage Range	±15%						
Grid-side Rated Frequency	50Hz/60Hz						
Grid-side Frequency Range	±5Hz						
Permant Overload Capacity	110% (Ambient Temperature < 40°C)						
Grid-to-Island Transition Time	< 10ms						
Wiring Method	3P4W						
Maximum Efficiency	99.5%						
Isolation Method	Non-isolated						
Protection Degree	IP20						
Operating Temperature Range	-30°C~55°C (> 45°C Derating)						

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STS							
Humidity	/			< 95% (No Condensation)			
Maximum Operating Altitude				3000m (>2000m, Derating)			
Cooling Method				Intelligent Air Cooling			
Noise				< 70dB			
Display				LED			
Weight				27kg			
Dimensions (W*H*D)				444*175*550mm			
RACK				SR215KFE224			
System Energy				215kWh			
Battery Type				LFP			
Cell Capacity				280Ah			
Single Battery Module Energy				896Wh			
Single Battery Module Rated Voltage				32VDC			
Single Battery Module Voltage Range				28-36VDC			
Single Battery Module Weight				70kg			
Single Battery Module Dimensions (W * H * D)				220*232*948mm			
Cycle Life				≥5200 Cycles			
Number of Battery Modules				24			
Installation Method				Rack-mounted Stacking			
Maximum Connectable Clusters				1-3			
Self-discharge				≤3%/Monthly			
Operating Temperature (Charging)				0~55°C			
Operating Temperature (Discharging)				-20~55°C			
System Rated Voltage				768VDC			
System Voltage Range				672~864VDC			
Charge/Discharge Rate				≤0.5C			
Depth of Discharge (DOD)				98%			
Maximum Operating Altitude				3000m (> 2000m Derating)			
Cooling Method				Intelligent Air Cooling			
IP Rating				IP20			
System Dimensions (W * H* D)				1500*1477*1012mm			
Communication Method				RS485/CAN/Ethernet			
Certification				UN38.3			
Isolation Transformer Cabinet (Optional)				SC125E400T400			
Rated Capacity				125kVA			
Rated Input Voltage				400VAC			
No-Load Output Voltage				400Vac±3%			
Load Output Voltage				400Vac±5%			
Rated Current				a/b/c 180.4A			
Rated Frequency				50 Hz / 60 Hz			
Temperature Rise				120K @125kVA			
Insulation Class				Class H			
Connection Group				Dyn11			
Efficiency				≥98% @125kVA			
Voltage Resistance				P-S; P、S-E:≤20mA, AC3.0kV/1min			
IR				P-S; P、S-E:≥100MΩ (DC500V)			
Noise				75dB @ 1 m			
Weight				485kg			
Dimensions (W*H*D)				710*680*530mm			
Ambient				-35°C~55°C			
Humidity				≤95%			
Material				AL			
Temperature Protection				160°C NC (Only Phase B)			
Cooling Method				AN			

SYL(Ningbo)Battery Co.,Ltd.