

RISE 261H-XH Hybrid Energy Storage System

- All-in-one highly integrated design
- 10 MPPT input, 2.0 DC/AC ratio
- Cell temperature difference $\leq 2.5^{\circ}\text{C}$
- Fast on-grid / off-grid switching $\leq 10\text{ ms}$
- 100% unbalanced load when backup
- 160% rated AC overload capacity
- Fully pre-assembled, plug-and-play
- Scalable up to 1.25MW/2.61MWh
- Muti-level fire protection



Preliminary Version

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Datasheet	RISE 261H-5H 50kW&261kWh		RISE 261H-4H 63kW&261kWh		RISE 261H-3H 85kW&261kWh		RISE 261H-2H 125kW&261kWh	
Battery Data (DC)								
Cell Type					LFP 3.2V/314Ah			
Battery module					52.24kWh/1P52S			
Battery system					261kWh/1P260S			
Battery voltage/range					832V(728~936V)			
Charge/Discharge Rate					≤0.5P			
Depth of discharge (DOD)					95%			
Input Data (PV)								
Max. recommended PV power	100kW		126kW		170kW		250kW	
Start voltage					195V			
Max. input voltage					1100V			
Max. open circuit voltage of PV					1000V			
MPPT voltage range					180V~1000V			
Max. input current per MPP tracker					42A			
Max. short-circuit current per MPP tracker					50A			
No. of PV strings per MPP tracker					2			
No. of MPP trackers					10			
Input Data AC								
Nominal AC voltage/range					380/400V, -15%~+10%			
Nominal AC grid frequency/range					50/60Hz,45-55Hz/55-65Hz			
AC grid connection type					3P4W+PE			
Rated input power	50kW		63kW		85kW		125kW	
Max. input current					250A			
Output Data AC (On-grid)								
AC nominal power	50kW		63kW		85kW		125kW	
Max. AC apparent power	55kVA		69.3kVA		93.5kVA		137.5kVA	
Nominal AC voltage/range					380/400V, -15%~+10%			
Nominal AC grid frequency/range					50/60Hz,45-55Hz/55-65Hz			
Max. output current	83.3A		105A		141.7A		208.3A	
Adjustable power factor					-1...+1			
THDi					<3% (@100% load)			
AC grid connection type					3P4W+PE			
Output Data AC (Off-grid)								
Rated AC output power	50kW		63kW		85kW		125kW	
Max. AC apparent power	55kVA		69.3kVA		93.5kVA		137.5kVA	
Rated AC output voltage					220V/230V(L-N), 380V/400V(L-L)			
Nominal AC output frequency					50/60 Hz			
Load connection					3P4W+PE			
Max. output current	83.3A		105A		141.7A		208.3A	
THDv					<3% (Linear load)			
Load unbalance					100% three-phase unbalanced			
Overload capacity					≤110%: Continues; 160% :10s			
On/off grid transfer time					≤10ms			
GEN Port Data								
Rated voltage					380/400V			
Rated frequency					50/60Hz			
Connection type					3P4W+PE			
Rated input power(GEN/AC couple)	50kW		63kW		85kW		125kW	
Rated input power(Smart load)	50kW		63kW		85kW		125kW	
General								
Dimensions (W/H/D)					1400/2150/1300mm			
Weight					2.6T			
Operating temperature range					-25 °C~55 °C			
Relative humidity					0~95%, no condensation			
Altitude					≤3000m			
Cooling					Smart air cooling for PCS&Liquid cooling for battery			
IP degree					IP 55			
Fire protection system					Aerosol			
Interfaces					RS485/USB			
Warranty (5/10 years)					Opt			
CE/CB, ROHS, IEC 62109-1/2, IEC 62116, IEC 61727, IEC 61683, IEC 60068, EN 50549-1-10, EN 50549-2-10, CEI 0-16 & 021, UNE 21700/NTS, NRS 097-2-1 UN 38.3, IEC 62619, IEC 62477-1, IEC 62933, REACH, UL 9540A**1								

*1 UL9540A certification will be finished in 2026, Q4.

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