RISE 261H-XH-US 480V Hybrid Energy Storage System

- All-in-one highly integrated design
- 10 MPPT input, 2.0 DC/AC ratio
- Cell temperature difference ≤ 3 ℃
- Fast on-grid / off-grid switching ≤ 10 ms
- 100% unbalanced load when backup
- 160% rated AC overload capacity
- Fully pre-assembled, plug-and-play
- Scalable up to 1.5MW/2.61MWh
- Muti-level fire protection





Preliminary Version

POWER-ING○
TOMO-RROW○

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Datasheet	RISE 261H-5H-US 50kW&261kWh	RISE 261H-4H-US 63kW&261kWh	RISE 261H-3H-US 85kW&261kWh	RISE 261H-2H-US 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	277/488V, -15%~+10%			
Nominal AC grid frequency/range	50/60Hz,45-55Hz/55-65Hz			
AC grid connection type	3P4W+PE			
AC nominal 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	277/480V,-15%~+10%			
Nominal AC grid frequency/range	50/60Hz,45-55Hz/55-65Hz			
Max. output current	66.2A	83.4A	112.5A	165.5A
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	277V(L-N),480V(L-L)			
Nominal AC output frequency	50/60 Hz			
Load connection	3P4W+PE			
Max. output current	66.2A	83.4A	112.5A	165.5A
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	277/480V			
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)	1400/1300/2150mm			
Weight	2.6T			
Operating temperature range	-25 °C~50 °C			
Relative humidity	0-95%, no condensation			
Altitude	≤2000m			
Cooling	Smart air cooling for PCS&Liquid cooling for battery			
IP degree	IP 55			
Fire protection system	Aerosol			
Interfaces	RS485/USB			
Warranty (5 years)	Yes			

*1 The maximum open circuit voltage of PV string must be lower than the maximum input voltage of the battery system connected to the inverter.
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SHENZHEN GROWATT NEW ENERGY CO.,LTD. A: 4-13/F,Building A,Sino-German(Europe)Industrial Park,Hangcheng Ave,Bao'an District,Shenzhen,China
T: + 86 755 2747 1900 F: + 86 755 2749 1460 E: info@ginverter.com