

Smart Hybrid Energy Storage System

50~100kW/209kWh

- Split design, support flexible configuration
- Modular design, support for multiple parallel operation, flexible expansion of system scale
- Multiple security protection to ensure the safe operation of the system
- Independent management of battery racks, high stability
- Localized minimalist operation and maintenance, supporting remote fault diagnosis and upgrading
- Supports automatic on/off-grid switching and 100% unbalanced load



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Hybrid Inverter Data				
Hybrid inverter model	WIT 50K-H/-HU	WIT 63K-H/-HU	WIT 75K-H/-HU	WIT 100K-H/-HU
PV Input Data* ¹				
Max. recommended PV power (for module STC)	109.2kW	124.8kW	156kW	156kW
Max. input voltage	1100V			
Max. open circuit voltage of PV* ²	1000V			
MPPT voltage range	180~800V			
Max. input current per MPP tracker	32A			
Max. short-circuit current per MPP tracker	40A			
No. of MPP trackers	7	8	10	10
AC Side Data (On-grid)				
AC nominal power	50kW	63kW	75kW	100kW
Max. output current	83.3A@380V 79.7A@400V	105A@380V 100.4A@400V	125A@380V 119.6A@400V	166.7@380V 159.4A@400V
Nominal AC voltage	380/400/415V			
AC voltage range	-15%~10%			
Nominal grid frequency/range	50/60Hz, 45-55Hz/55-65Hz			
Power factor(@nominal power)	>0.99			
Adjustable power factor	-1...+1			
THDi	<3%			
AC grid connection type	3P3W+PE/3P4W+PE			
AC Side Data (Off-grid)* ³				
AC nominal power	50kW	63kW	75kW	100kW
Max. AC apparent power	60kVA	75.6kVA	90kVA	120kVA
Max. output current	90.9A	114.5A	136.4A	181.8A
Nominal AC voltage	220V/230V/240V(L-N), 380V/400V/415V(L-L)			
Nominal grid frequency	50/60Hz			
THDv	<3%(Linear load)			
AC grid connection type	3L+N+PE			
Load unbalance	100% three-phase unbalance			
Overload capacity	≤100%: continues; 100%~120%: 10min; <120%: 200ms			
On/off grid transfer time	≤10ms			
Battery System Data				
Battery system model	ACE 209H-2H-E1			
Number of battery modules	13			
Nominal energy	209.6kWh			
Dimension (W/H/D)	1200/2040/1165mm			
Weight	≤2600kg			
Nominal voltage	748.8V			
Operating voltage range	655.2-854.1V			
Nominal capacity	280Ah(@25°C)			
Battery type	Cobalt Free Lithium Iron Phosphate(LFP)			
DoD	90%			
Communication port	CAN/RS485/LAN			
Control module	ACE 1000140-C1			
System Data				
Installation	Floor installation			
Ingress protection	IP66 (hybrid inverter), IP55(battery system)			
Communication interfaces	RS485/CAN, WiFi/4G/LAN (Opt)			
Cooling mode	Smart air cooling			
Operating temperature	-10°C ~ 50°C (>45°C derating)			
Relative humidity	5~95%			
Altitude	<3000m			
Topology	Transformerless			
Warranty (5/10 years)	Yes/Opt			
Battery System: IEC 62619(Cell&Pack), IEC 60730, IEC62477, IEC 62040, CE, UN38.3, UKCA Hybrid Inverter: EN 62920-2017, IEC/EN 62477-1, IEC/EN 62109-1, IEC/EN 62109-2, IEC 62116, IEC 61727, G99-2020, EN 50549-1, VDE 4105, NRS 097-2-1				

*1 Hybrid inverter can be replaced as storage inverter(WIT 50-100K-A/-AU), PV input data will be removed.

*2 The maximum open circuit voltage of PV string must be lower than the maximum input voltage of the battery system connected to the inverter.

*3 The parameter of AC side data(Off-grid) is only available for WIT -HU/AU model.

* Nominal charge/discharge current and power derating will occur related to temperature and SOC.

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