

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		
THD _i		<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		
THD _v		<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		209.6Wh		
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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