

Distributed Energy Storage System

29.9~50kW/50~60kWh

- Inverter and battery highly integrated to form a compact design
- Support multiple sets of sub-systems operation in parallel in off-grid mode
- Multiple MPPTs and battery input for single system
- Easy installation and maintenance
- Suitable for multiple C&I application scenarios
- Support UPS function
- Strong power grid adaptability



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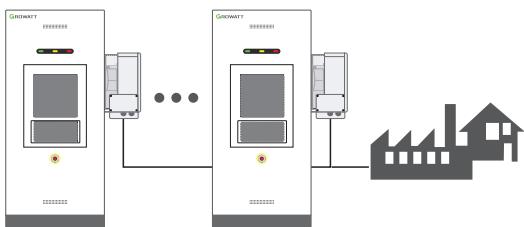
Hybrid Inverter Data					
Model	WIT 29.9K-XHU	WIT 30K-XHU	WIT 36K-XHU	WIT 40K-XHU	WIT 50K-XHU
Max. recommended PV power (for module STC)	59.8kW	60kW	72kW	80kW	100kW
Start voltage			195V		
Max. DC voltage			1100V		
Nominal voltage			620V		
MPP voltage range			180V-1000V		
Full load DC voltage range	375V-850V	375V-850V	450V-850V	500V-850V	620V-850V
Max. input current per MPP tracker			40A		
Max. short-circuit current per MPP tracker			50A		
No. of PV strings per MPP tracker			2		
No. of MPP trackers			4		
Battery Data (DC)					
Battery voltage range			200-900V		
No. of battery input			3		
Max. charging / discharging current			55A*3		
BMS communication			RS485/CAN		
Input/Output AC					
AC input/output nominal power(Grid)	59.8kW/29.9kW	60kW/30kW	72kW/36kW	80kW/40kW	100kW/50kW
Max. AC input/output apparent power(Grid)	59.8kVA/29.9kVA	66kVA/33kVA	79.2kVA/39.6kVA	88kVA/44kVA	110kVA/55kVA
Max. input/output current(Grid)	90.6A/45.3A	100A/50A	120A/60A	133.3A/66.7A	166.7A/83.3A
Max. input current(GEN/AC couple)	90.6A/45.3A	100A/45.5A	120A/54.5A	133.3A/60.7A	166.7A/75.7A
Max. output current(Smart load)			200A		
Nominal AC voltage/range			380/400V, -15%~10%		
Nominal AC grid frequency/range			50Hz/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		
Backup Power					
AC nominal output power	29.9kW	30kW	36kW	40kW	50kW
Max. AC apparent power	29.9kVA	45kVA	54kVA	60kVA	75kVA
Nominal AC voltage			220V/230V(L-N), 380V/400V(L-L)		
Nominal AC frequency			50/60Hz		
Max. output current	68.0A	68.2A	81.8A	91A	113.6A
Overload capability			1.5 time of rated power, 10s		
THDv			<3% (@Linear full load)		
Efficiency					
Max. efficiency			98.1%		
Protection Devices					
DC reverse polarity protection			Yes		
Battery reverse protection			Yes		
Insulation resistance monitoring			Yes		
AC/DC surge protection			Type II		
AC short-circuit protection			Yes		
Ground fault monitoring			Yes		
Grid monitoring			Yes		
String monitoring			Yes		
Anti-islanding protection			Yes		
Residual-current monitoring unit			Yes		
General Data					
Dimensions (W/H/D)			920/585/320mm		
Weight			92kg		
Operating temperature range			-30°C ~ 60°C (>50°C derating)		
Noise emission			≤55dB		
Altitude			4000m		
Topology			Transformerless		
Cooling			Smart air cooling		
Protection degree			IP66		
Relative humidity			0~95%		
Interfaces					
Display			OLED+LED/APP		
Interfaces			RS485/USB/CAN, WIFI/LAN(Opt)		
Warranty: 5 / 10 years			Yes/Opt		

NRS 097-2-1:2017, EN 50549-1, IEC 62116, IEC 61727, G99:2020, VDE 4105, IEC/EN 61000-6-1, IEC/EN 61000-6-3, IEC/EN 62109-1, IEC/EN 62109-2

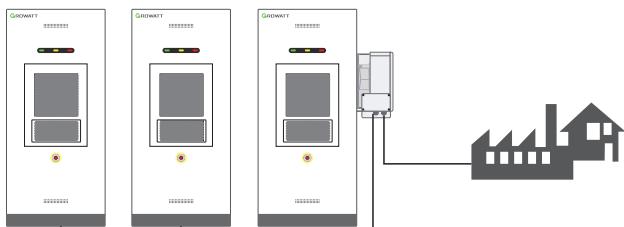
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Battery System Data		
Model	AXE 50.0H-TE1 EU	AXE 60.0H-TE1 EU
Control module		AXE 1000100-C1 EU
Number of control module		1
Battery module		AXE 5.0H-E1 EU
Number of modules in series	10	12
Energy capacity	50kWh	60kWh
Usable capacity	45kWh	54kWh
Max. output power* ¹	50kW	60kW
Max. charge/discharge current	100A	
Dimension (W/H/D)		800/2000/1000mm
Weight	≤0.9t	≤1t
Nominal voltage	512V	614.4V
Operating voltage range	464~568V	556.8~681.6V
Ingress protection	IP55	
Installation style		Floor stand
Operating temperature range	-25~55°C	
Relative humidity	5% ~ 95%	
Cooling	Air-Cooling	
Warranty	10 years	
Noise emission	<65dB	
Maximum altitude	≤2000m	
Control Module		AXE 1000100-C1 EU
Dimension (W/H/D)		482/131/580mm
Weight		≤15kg
Communication port		CAN/RS485/USB
Operating voltage range		120V-1000Vdc
Maximum current		100A
Monitoring parameters	SOC, System voltage, current, cell voltage, cell temperature, PCBA temperature	
Battery Module		AXE 5.0H-E1 EU
Battery type	Lithium-ion	
Nominal energy	5kWh	
Nominal voltage	51.2V	
Pack operating voltage range	46.4~56.8V	
Dimension (W/H/D)	482/131/580mm	
Battery module weight	≤47kg	
UN 38.3, IEC 62619, IEC 60730, IEC 62477, CE, RoHS, UKCA		

AC Multi-System Parallel Operation



DC*² Flexible Battery Capacity



* 1 Depend on the max. battery charge/discharge power of the inverter.

* 2 DC means battery input capability here.

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

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