

Distributed Energy Storage System

29.9-50kW/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 60.0H-1HT-S1
Control module	AXE 1000100-C1
Number of control module	1
Battery module	AXE 5.0H-E1
Number of modules in series	12
Energy capacity	60kWh
Usable capacity	54kWh
Max. output power*1	60kW
Max. charge/discharge current	100A
Dimension (W/H/D)	800/2000/1000mm
Weight	≤1t
Nominal voltage	614.4V
Operating voltage range	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

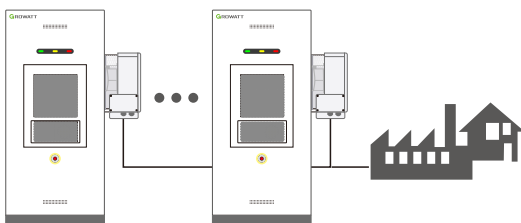
Dimension (W/H/D)	482/131/580mm
Weight	≤15kg
Communication port	CAN/RS485/USB
Operating voltage range	120V~1000Vdc
Maximum current	100A
Monitoring parameters	SOC, System voltage, current, cell voltage, cell temperature, PCBA temperature

Battery Module AXE 5.0H-E1

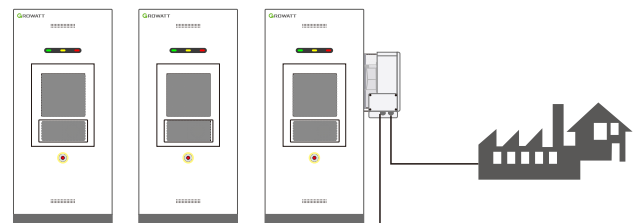
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)
Nominal energy	5kWh
Nominal voltage	51.2V
Pack operating voltage range	46.4~56.8V
Dimension (W/H/D)	482/131/580mm
Battery module weight	≤47kg

UN 38.3, IEC 62619, IEC 60730, IEC 62477, CE, RoHS, UKCA, UL9540A*3

AC Multi-System Parallel Operation



DC*2 Flexible Battery Capacity



extend to 120~180kWh

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

* 2 DC means battery input capability here.

* 3 UL9540A certification will be finished in 2026, Q1.

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

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