



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



note: subject to change without any notice, JDA pay no responsibility



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(Optional)					
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

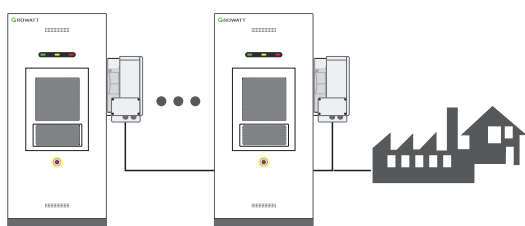
AXE 5.0H-E1 EU

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

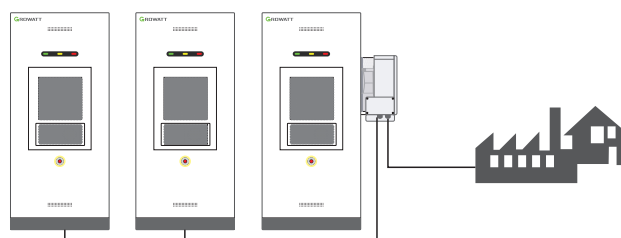
AC

Multi-System Parallel Operation



DC*2

Flexible Battery Capacity



extend to 120~180kWh