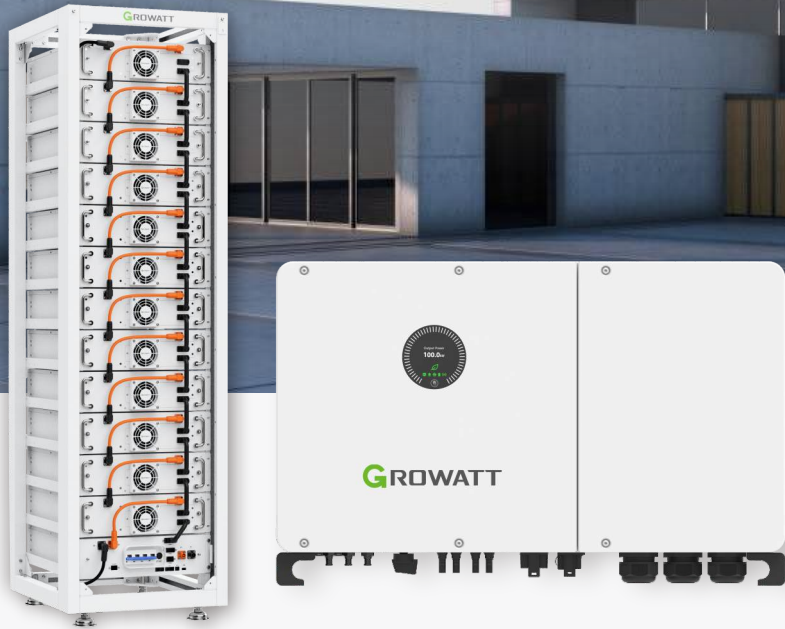


# Hybrid Energy Storage System

(29.9~50kW/30~180kWh)

- Flexible capacity options, 29.9~50kW/30~180kWh
- 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 30.0H-RE1 EU	AXE 35.0H-RE1 EU	AXE 40.0H-RE1 EU	AXE 50.0H-RE1 EU	AXE 60.0H-RE1 EU
Control module	AXE 1000100-C1 EU				
Number of control module	1				
Battery module	AXE 5.0H-E1 EU				
Number of modules in series	6	7	8	10	12
Energy capacity	30kWh	35kWh	40kWh	50kWh	60kWh
Usable capacity	27kWh	31.5kWh	36kWh	45kWh	54kWh
Max. output power* <sup>1</sup>	30kW	35kW	40kW	50kW	60kW
Max. charge/discharge current	100A				
Dimension (W/H/D)	570/1560/660mm			570/1964/660mm	
Weight	≤0.38t	≤0.43t	≤0.48t	≤0.59t	≤0.69t
Nominal voltage	307.2V	358.4V	409.6V	512V	665.6V
Operating voltage range	278.4~340.8V	324.8~397.6V	371.2~454.4V	464~568V	603.2~738.4V
Ingress protection	IP20				
Installation style	Floor-Mounted				
Operating temperature range	-10~50°C				
Relative humidity	5% ~ 95%				
Cooling	Air-Cooling				
Warranty	5 years (opt. 10 years)				
Noise emission	<60dB				
Maximum altitude	≤2000m				

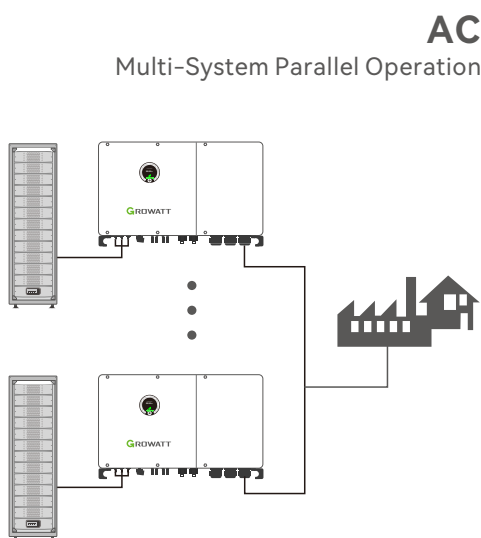
### Control Module AXE 1000100-C1 EU

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

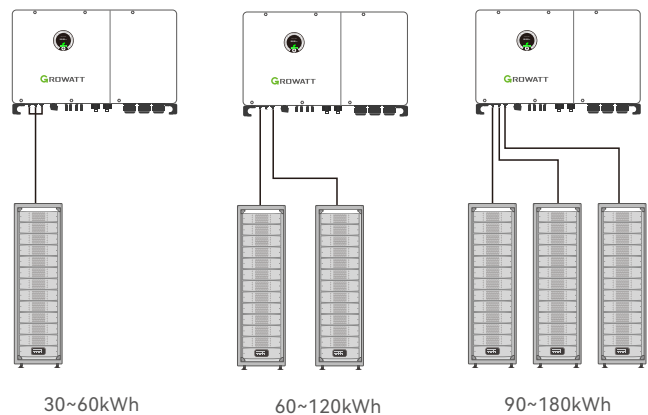
### Battery Module AXE 5.0H-E1 EU

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



### DC\*<sup>2</sup> 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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