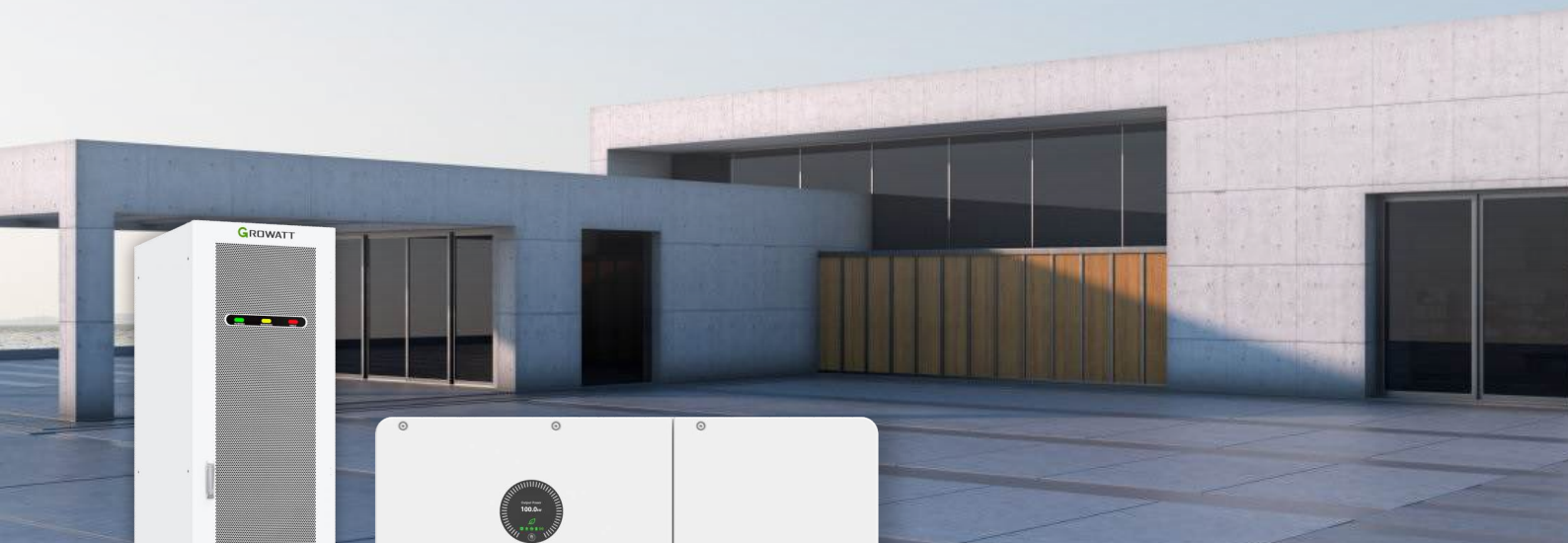


Hybrid Energy Storage System

(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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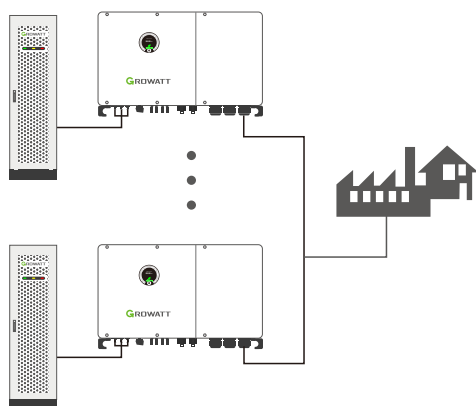
en.growatt.com

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						

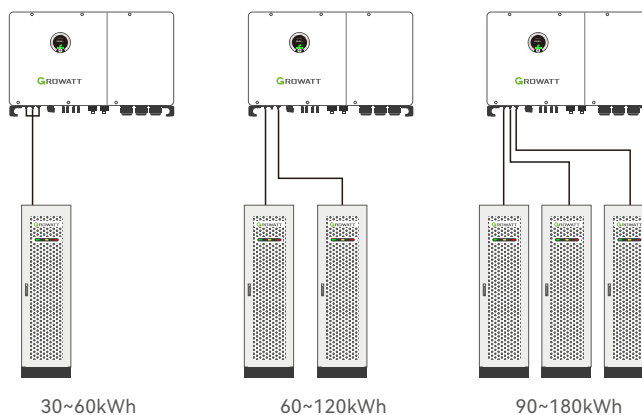
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Battery System Data					
Model	AXE 30.0H-CE1 EU	AXE 35.0H-CE1 EU	AXE 40.0H-CE1 EU	AXE 50.0H-CE1 EU	AXE 60.0H-CE1 EU
Control module	AXE 1000100-C1 EU				
Number of control module	1				
Battery module	AXE 5.0H-E1 EU				
Number of modules in series	6	7	8	10	12
Energy capacity	30kWh	35kWh	40kWh	50kWh	60kWh
Usable capacity	27kWh	31.5kWh	36kWh	45kWh	54kWh
Max. output power* ¹	30kW	35kW	40kW	50kW	60kW
Max. charge/discharge current	100A				
Dimension (W/H/D)	600/1600/800mm			600/2000/800mm	
Weight	≤0.48t	≤0.53t	≤0.58t	≤0.7t	≤0.8t
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					

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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