

P O W E R
- I N G ●
T O M O -
R R O W ●

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Q Growatt New Energy

GR-CA-046-02

GROWATT

C&I Energy Storage Solution

Guarantee your 24/7 energy
with the best products and services



2025



SERVICE SUPPORT

ONLINE SMART SERVICE

Growatt has developed the Online Smart Service (OSS) system, which enables installers, integrators and EPCs to manage and maintain their solar plants remotely and intelligently for improved service efficiency, customer satisfaction and reduced O&M costs.



PROFESSIONAL TRAINING

As a global leading distributed energy solution provider, we provide in-depth education and training in the latest energy technologies, product installation, system monitoring, troubleshooting techniques, etc. Customers can access online training resources on our YouTube channel or attend our webinars and in-person events for an engaging learning experience.



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COMPANY PROFILE

Growatt was established in 2011 by a group of pioneers in the global PV industry with a vision to build a green and sustainable future. Specializing in sustainable energy generation, storage and consumption, as well as energy digitalization, we design, develop and manufacture PV inverters, energy storage products, EV chargers, smart energy management system and others.



Highly regarded by customers worldwide, Growatt ranks among the Top 5 PV inverter suppliers globally, according to S&P Global Commodity Insights. Specifically, we hold the leading position as the world's Top 2 suppliers of residential inverter and the Top 5 commercial & industrial PV inverter suppliers in terms of shipment volume.

Since our establishment, Growatt has been committed to continuous technology innovations. With a well-established R&D platform and a R&D team of more than 1,100 professionals, we constantly introduce new upgrades and innovations in the energy efficiency, functional safety and intelligent solutions of inverter, energy storage and EV charging applications. Till now, we have obtained more than 187 patents.

At Growatt, we hold ourselves to comprehensive and strict engineering and quality control standards. From design to manufacturing, we have implemented a comprehensive and rigorous system to ensure high level of quality, reliability and performance. We have received 'All Quality Matters Awards' by TÜV Rheinland for our C&I inverters — MAX 80KTL3 MV and MAX 125KTL3-X LV as well as battery storage solution—ARK Battery System for achieving first-rate performance in numerous safety and reliability tests.

Committed to 'glocalization', Growatt has set up 65 representative sites worldwide to provide localized service support with a combination of online and offline support. We have developed the Online Smart Service (OSS) system that enables installers, integrators and EPCs to manage and maintain their solar plants remotely and intelligently.

To date, Growatt's business spans across over 180 countries and regions. We work with thousands of local partners to establish robust distribution and logistics networks, ensuring convenient access to our product portfolios for global customers.

2025
2011



3,100,000+
Inverters

400,000+
Battery Packs

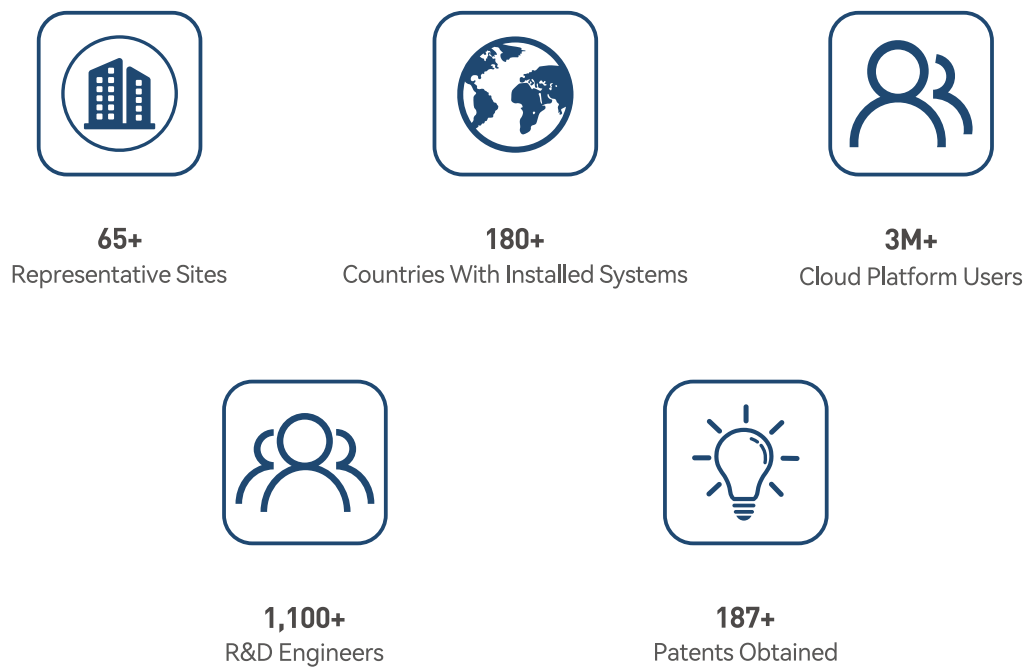
Annual Production Capacity



180+

Countries With Installed Systems

OUR STRENGTH IN DATA



GLOBAL NETWORK



HONORS & AWARDS



TOP BRAND PV AWARDS



Growatt C&I Storage Solution

GLOBAL LEADING
DISTRIBUTED ENERGY SOLUTION PROVIDER



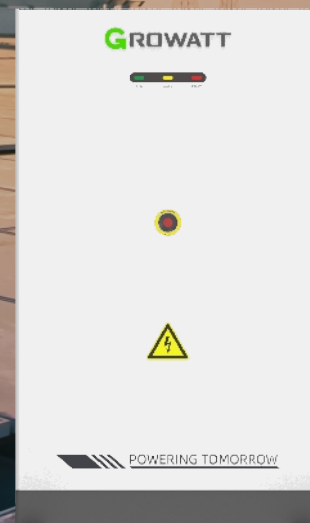
WIT 29.9-50K-XHU



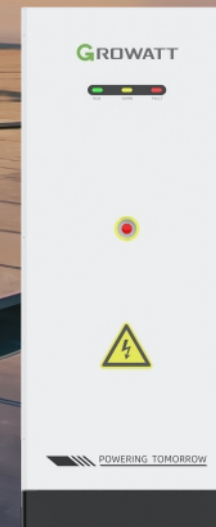
WIT 50-100K-HU
WIT 100K-HU(P)



ACE 261H-2H



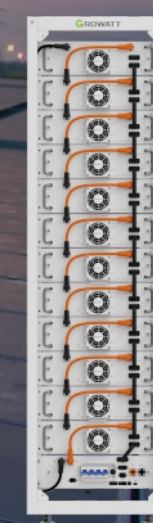
ACE 209H-2H



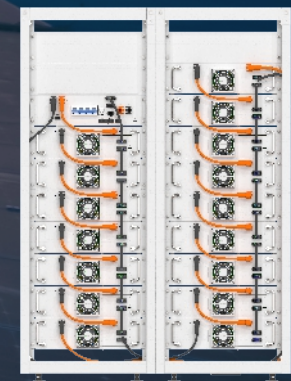
AXE 50.0-60.0H-1HT-S1



AXE 30.0-60.0H-1HC-E1
AXE 30.0-60.0H-2HC-S1



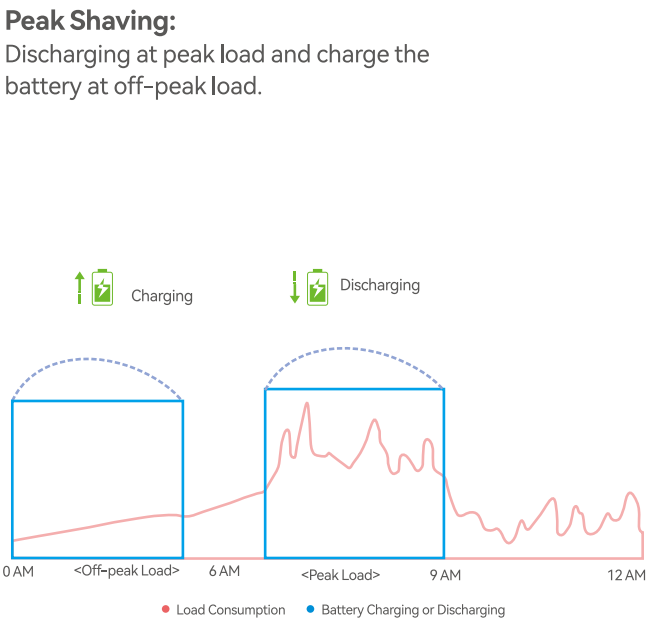
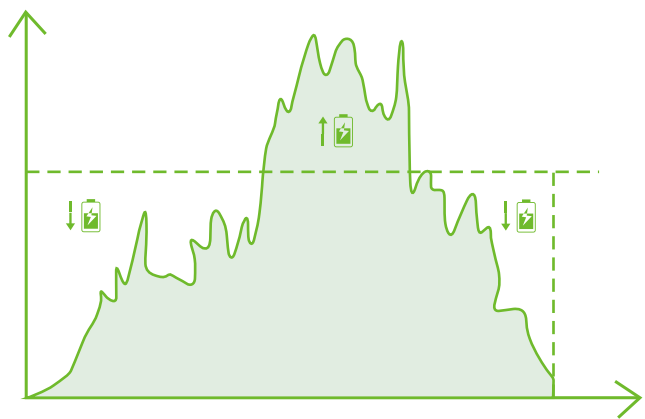
AXE 30.0-60.0H-1HR-E1
AXE 30.0-60.0H-2HR-S1



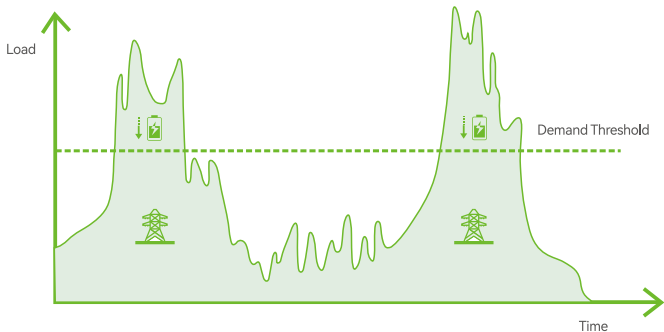
AXE 75.0-80.0H-1HR-S1
AXE 75.0-80.0H-2HR-S1

Commercial & Industrial ESS Applications

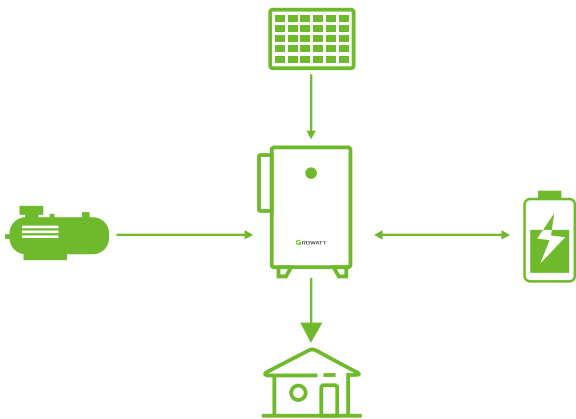
Self-Consumption:
Better to maximize self-consumption with storage battery, store solar power and use it when solar power is weak.



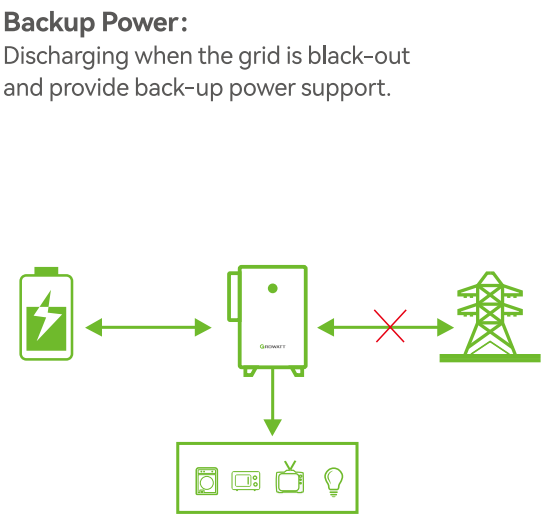
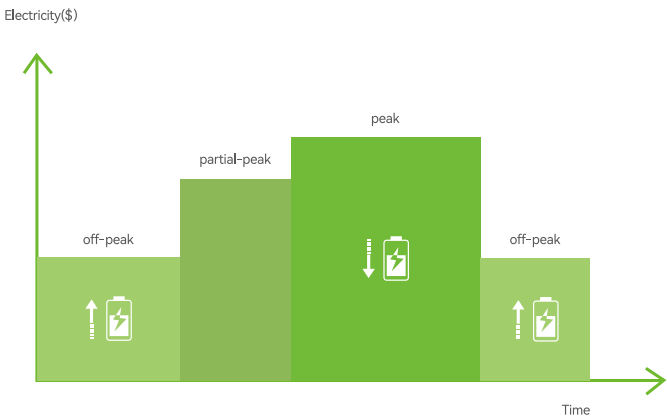
Demand Charge:
The battery will discharge to compensate the parts of the load consumption over the power demand threshold.



Micro-grid:
Work with multiple energy source to guarantee 24/7 power supply where there is no grid.

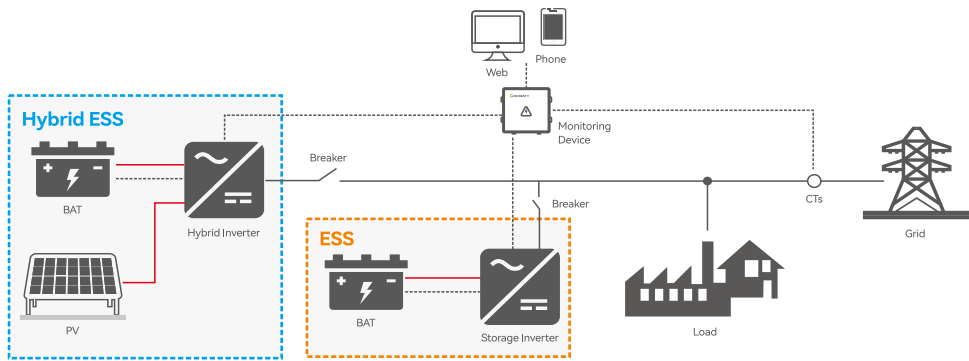


Time of Use:
Charge the battery at off-peak tariff and use it at peak tariff to reduce the electricity bill.



Commercial & Industrial ESS Solutions

ESS for On-Grid Solution Single System or Multiple Systems



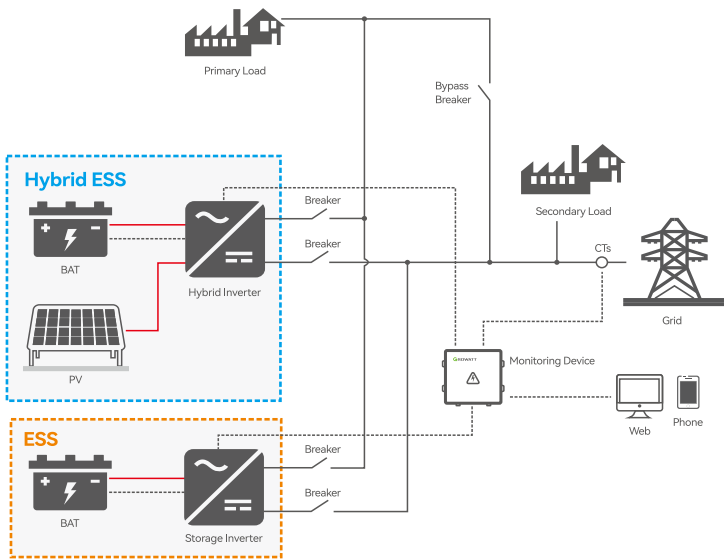
Product Options

Hybrid ESS or ESS:
WIT 50~100K-HU + ACE 209H-2H
WIT 50~100K-HU + ACE 261H-2H
WIT 50~100K-HU + AXE75.0H- 1HR-S1
WIT 50~100K-HU + AXE 75.0H-2HR-S1
WIT 100K-HU(P) + ACE 261H-2H
WIT 100K-HU(P)+ AXE 75.0~80.0H-1HR-S1
WIT 100K-HU(P)+ AXE 75.0~80.0H-2HR-S1

WIT 29.9~50K-XHU + AXE 30.0~60.0H-1HC-E1
WIT 29.9~50K-XHU + AXE 30.0~60.0H-2HC-S1
WIT 29.9~50K-XHU + AXE 30.0~60.0H-1HR-E1
WIT 29.9~50K-XHU + AXE 30.0~60.0H-2HR-S1
WIT 29.9~50K-XHU + AXE 50~60.0H-1HT-S1

Accessories:
SEM-XA-RM+CTs
Datalogger(for WIT-XHU single system)
TPM-CT-E/C-EU(for WIT-XHU single system)
Battery Terminal Junction Box
(for larger-current battery system support for WIT-XHU)

ESS for On/Off-Grid Solution Single System or Multiple Systems

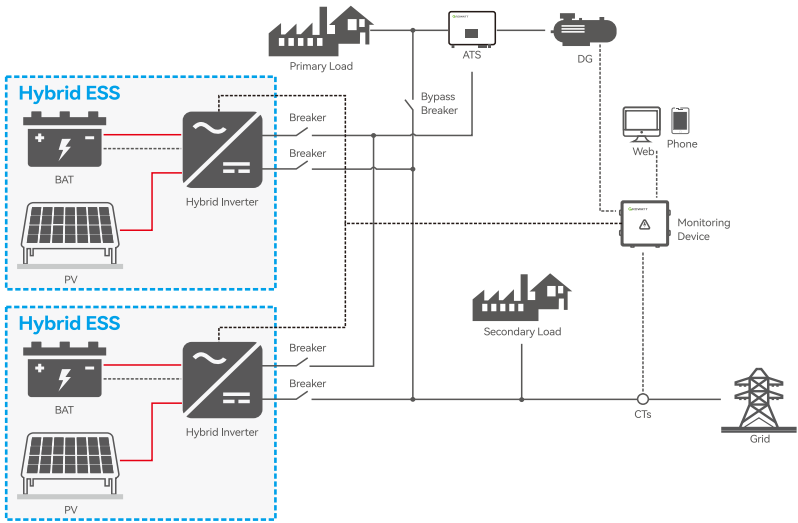


Product Options

Hybrid ESS or ESS:
WIT 50~100K-HU + ACE 209H-2H
WIT 50~100K-HU + ACE 261H-2H
WIT 50~100K-HU + AXE75.0H- 1HR-S1
WIT 50~100K-HU + AXE 75.0H-2HR-S1
WIT 100K-HU(P) + ACE 261H-2H
WIT 100K-HU(P)+ AXE 75.0~80.0H-1HR-S1
WIT 100K-HU(P)+ AXE 75.0~80.0H-2HR-S1
WIT 29.9~50K-XHU + AXE 30.0~60.0H-1HC-E1
WIT 29.9~50K-XHU + AXE 30.0~60.0H-2HC-S1
WIT 29.9~50K-XHU + AXE 30.0~60.0H-1HR-E1
WIT 29.9~50K-XHU + AXE 30.0~60.0H-2HR-S1
WIT 29.9~50K-XHU + AXE 50~60.0H-1HT-S1

Accessories:
SEM-XA-RM+CTs
Datalogger(for WIT-XHU single system)
TPM-CT-E/C-EU
Battery Terminal Junction Box
(for larger-current battery system support for WIT-XHU)

Hybrid ESS for On/Off-Grid Solution with DG Single System or Multiple Systems

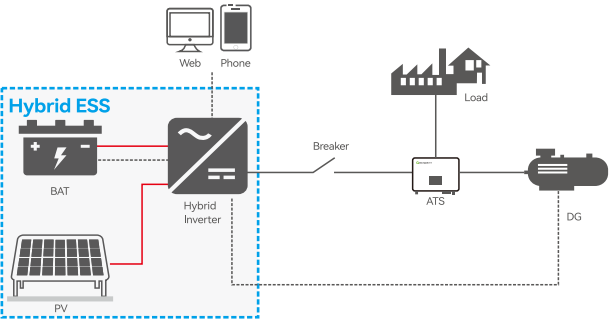


Product Options

Hybrid ESS :
WIT 50~100K-HU + ACE 209H-2H
WIT 50~100K-HU + ACE 261H-2H
WIT 50~100K-HU + AXE75.0H- 1HR-S1
WIT 50~100K-HU(P) + ACE 261H-2H
WIT 100K-HU(P)+ AXE 75.0~80.0H-1HR-S1
WIT 100K-HU(P)+ AXE 75.0~80.0H-2HR-S1
WIT 29.9~50K-XHU + AXE 30.0~60.0H-1HC-E1
WIT 29.9~50K-XHU + AXE 30.0~60.0H-2HC-S1
WIT 29.9~50K-XHU + AXE 30.0~60.0H-1HR-E1
WIT 29.9~50K-XHU + AXE 30.0~60.0H-2HR-S1
WIT 29.9~50K-XHU + AXE 50~60.0H-1HT-S1

Accessories:
SEM-XA-RM+CTs
Datalogger(for WIT-XHU single system)
TPM-CT-E/C-EU(for WIT-XHU single system)
EU SYN 600E-30(ATS for WIT-HU generator integration)
Battery Terminal Junction Box
(for larger-current battery system support for WIT-XHU)

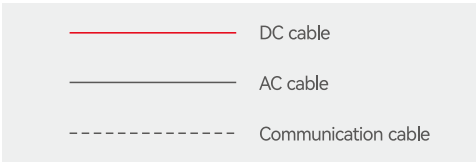
Hybrid ESS for Off-Grid Solution Micro Grid with DG



Product Options

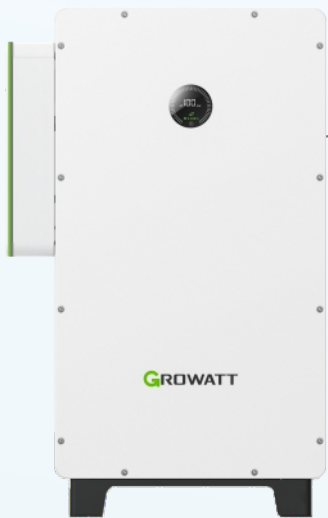
Hybrid ESS:
WIT 50~100K-HU + ACE 209H-2H
WIT 50~100K-HU + ACE 261H-2H
WIT 50~100K-HU + AXE75.0H- 1HR-S1
WIT 50~100K-HU + AXE 75.0H-2HR-S1
WIT 100K-HU(P) + ACE 261H-2H
WIT 100K-HU(P)+ AXE 75.0~80.0H-1HR-S1
WIT 100K-HU(P)+ AXE 75.0~80.0H-2HR-S1
WIT 29.9~50K-XHU + AXE 30.0~60.0H-1HC-E1
WIT 29.9~50K-XHU + AXE 30.0~60.0H-2HC-S1
WIT 29.9~50K-XHU + AXE 30.0~60.0H-1HR-E1
WIT 29.9~50K-XHU + AXE 30.0~60.0H-2HR-S1
WIT 29.9~50K-XHU + AXE 50~60.0H-1HT-S1

Accessories:
SEM-XA-RM
Datalogger(for WIT-XHU single system)
EU SYN 600E-30(ATS for WIT-HU generator integration)
Battery Terminal Junction Box
(for larger-current battery system support for WIT-XHU)



WIT 50-100kW Hybrid Inverter

WIT 50-100K-HU



- Scalable system configuration, extend to 300kW
- Support UPS function and black start
- 100% unbalanced load when backup
- 110% continuous AC overloading capacity
- Support remote control of DG
- Multiple MPPTs input
- Grid-support functions

GROWATT · PRODUCT

Datasheet	WIT 50K-HU	WIT 63K-HU	WIT 75K-HU	WIT 100K-HU
Input Data (PV)				
Max. recommended PV power(for module STC)	109.2kW	124.8kW	156kW	156kW
Start voltage			195V	
Max. input voltage			1100V	
Max. open circuit voltage of PV*1			1000V	
MPPT nominal voltage/range		550V,180V~800V		
Max. input current per MPP tracker		32A		
Max. short-circuit current per MPP tracker		40A		
No. of PV strings per MPP tracker		2		
No. of MPP trackers	7	8	10	10
Output Data (AC)				
AC nominal power	50kW	63kW	75kW	100kW
Max. AC apparent power	55kVA	69.3kVA	82.5kVA	110kVA
Nominal AC voltage/range		380/400/415V,-15%~+10%		
Nominal AC grid frequency/range		50/60Hz,45-55Hz/55-65Hz		
Max. output current	83.3A	105A	125A	166.7A
Adjustable power factor		-1...+1		
THDi		<3% (@100% load)		
AC grid connection type		3P3W+PE/3P4W+PE		
Input Data (AC)				
AC nominal power	100kW	126kW	150kW	200kW
Max. AC apparent power	100kVA	126kVA	150kVA	200kVA
Nominal AC voltage/range		380/400/415V,-15%~+10%		
Nominal AC grid frequency/range		50/60Hz,45-55Hz/55-65Hz		
Max. input current	151.5A	190.9A	227.3A	303A
Battery Data (DC)				
Continuous charging and discharging power	56.7kW	71.4kW	85.1kW	113.5kW
Battery voltage range		600-1000V (for 3P3W) / 680-1000V (for 3P4W) (>850V derating)		
Recommended battery voltage		768V		
Max charging and discharging current	83.3A	105A	125A	167A
BMS communication		RS485/CAN		
Backup Power (AC)				
Rated AC output power	50kW	63kW	75kW	100kW
Max. AC apparent power	60kVA	75.6kVA	90kVA	120kVA
Rated AC output voltage		220V/230V/240V(L-N),380V/400V/415V(L-L)		
Nominal AC output frequency		50/60 Hz		
Load connection		3P3W+PE/3P4W+PE		
Max. output current	90.9A	114.5A	136.4A	181.8A
THDv		<3% (Linear load)		
Load unbalance		100% three-phase unbalanced		
Overload capacity		≤110%: Continues; 110%~120%: <10min; >120%: 200ms		
On/off grid transfer time		≤10ms		
Efficiency				
Max. efficiency		98.2%		
Protection Devices				
PV reverse polarity protection		Yes		
Battery reverse protection		Yes		
AC/DC surge protection		Type II		
Insulation resistance monitoring		Yes		
Ground fault monitoring		Yes		
Grid monitoring		Yes		
Residual-current monitoring unit		Yes		
AC short-circuit protection		Yes		
Strings monitoring		Yes		
Anti-islanding protection		Yes		
PID protection		Yes		
AFCI function		Opt		
General				
Dimensions (W/H/D)		820/1350/510mm		
Weight	153kg	153kg	160kg	160kg
Operating temperature range		-30 °C~60 °C (> 50°C, derating)		
Relative humidity		0~100%		
Altitude		4000m		
Topology		Transformerless		
Cooling		Smart air cooling		
IP degree		IP66		
Display		OLED+LED/WIFI+APP		
Interfaces: RS485/CAN/USB		Yes		
Interfaces: WIFI/LAN		Opt		
Warranty (5/10 years)		Yes/Opt		
EN 62920-2017, IEC/EN 62477-1, IEC/EN 62109-1, IEC/EN 62109-2, IEC 62116, IEC 61727, G99:2020, EN 50549-1, VDE 4105, NRS 097-2-1				

*1 The maximum open circuit voltage of PV string must be lower than the maximum input voltage of the battery system connected to the inverter.

WIT 100kW Hybrid Inverter

WIT 100K-HU (P)



- 125% continuous AC overloading capacity
- Scalable system configuration, extend to 10 units
- Support UPS function and black start
- 100% unbalanced load when backup
- Black start function
- Support remote control of DG
- Multiple MPPTs input
- Weak grid support (SCR ≥ 1.5)

GROWATT · PRODUCT

Datasheet	WIT 100K-HU (P)
Input Data (PV)	
Max. recommended PV power(for module STC)	156kW
Start voltage	195V
Max. input voltage	1100V
Max. open circuit voltage of PV*1	1000V
MPPT nominal voltage/range	550V,180V~800V
Max. input current per MPP tracker	32A
Max. short-circuit current per MPP tracker	40A
No. of PV strings per MPP tracker	2
No. of MPP trackers	10
Output Data (AC)	
AC nominal power	100kW
Max. AC apparent power	135kVA
Nominal AC voltage/range	380/400/415V,-15%~+10%
Nominal AC grid frequency/range	50/60Hz,45~55Hz/55~65Hz
Max. output current	204.5A
Adjustable power factor	-1...+1
THDi	<3% (@100% load)
AC grid connection type	3P3W+PE/3P4W+PE
Input Data (AC)	
AC nominal power	100kW/200kW
Max. continuous AC apparent power	125kVA/250kVA
Nominal AC voltage/range	380/400/415V,-15%~+10%
Nominal AC grid frequency/range	50/60Hz,45~55Hz/55~65Hz
Max. input current	204.5A/409.1A
Battery Data (DC)	
Continuous charging and discharging power	130kW
Battery voltage range	600~1000V (for 3P3W) / 680~1000V (for 3P4W) (>900V derating)
Max charging and discharging current	191A
BMS communication	RS485/CAN
Backup Power (AC)	
Rated AC output power	100kW
Max.AC apparent power	135kVA
Rated AC output voltage	220V/230V/240V(L-N),380V/400V/415V(L-L)
Nominal AC output frequency	50/60 Hz
Load connection	3P3W+PE/3P4W+PE
Max. output current	204.5A
THDv	<3% (Linear load)
Load unbalance	100% three-phase unbalanced
Overload capacity	≤125%: Continues;125%~135%:1min;>135%: 200ms
On/off grid transfer time	≤10ms
Efficiency	
Max. efficiency	98.2%
Protection Devices	
PV reverse polarity protection	Yes
Battery reverse protection	Yes
AC/DC surge protection	Type II
Insulation resistance monitoring	Yes
Ground fault monitoring	Yes
Grid monitoring	Yes
Residual-current monitoring unit	Yes
AC short-circuit protection	Yes
Strings monitoring	Yes
Anti-islanding protection	Yes
PID protection	Yes
AFCI function	Opt
General	
Dimensions (W/H/D)	820/1350/510mm
Weight	160kg
Operating temperature range	-30 °C~60 °C (> 50°C, derating)
Relative humidity	0~100%
Altitude	4000m
Topology	Transformerless
Cooling	Smart air cooling
IP degree	IP66
Display	OLED+LED/WiFi+APP
Interfaces: RS485/CAN/USB	Yes
Interfaces: WIFI/LAN	Opt
Warranty (5/10 years)	Yes/Opt
EN 62920-2017, IEC/EN 62477-1, IEC/EN 62109-1, IEC/EN 62109-2, IEC 62116, IEC 61727, G99:2020, EN 50549-1, VDE 4105, NRS 097-2-1	

*1 The maximum open circuit voltage of PV string must be lower than the maximum input voltage of the battery system connected to the inverter.

WIT 29.9-50kW Hybrid Inverter

WIT 29.9-50K-XHU



- Multiple MPPTs and battery input
- Support DG input and smart load function
- Support UPS function and black start function
- Support parallel operation of up to 10 inverters in off-grid mode
- Intelligent air cooling, no derating at 50°C ambient temperature
- 100% three-phase unbalanced output and 150% off-grid overload capacity
- Strong power grid adaptability, supporting weak grid environments with SCR<1.2

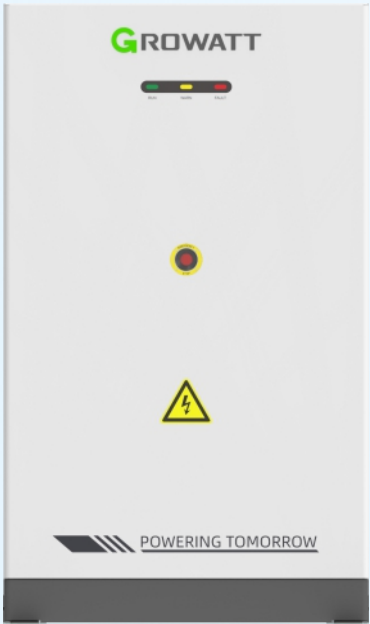
GROWATT · PRODUCT

Datasheet	WIT 29.9K-XHU	WIT 30K-XHU	WIT 36K-XHU	WIT 40K-XHU	WIT 50K-XHU
Input Data (PV)					
Max. recommended PV power (for module STC)	59.8kW	60kW	72kW	80kW	100kW
Start voltage	195V				
Max. DC voltage	1100V				
Nominal voltage	620V				
Max. open circuit voltage of PV	1000V				
Operating 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				
Full load battery voltage range	200-800V	200-800V	225-800V	250-800V	310-800V
Recommended battery voltage	512V				
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. continuous AC passthrough current	200A				
Nominal AC voltage/range*1	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 times of rated power, 10s				
THDv	<3% (@Linear full load)				
Switch time	≤10ms				
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	90kg				
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				
CE/CB, ROHS, IEC 62109-1, IEC 62109-2, IEC 62477-1, EN 62920, IEC 61000-6-4, IEC 61000-6-2, IEC 61000-3-12, IEC 61000-3-11, EN 55011, IEC 62116, IEC 61727, IEC 61683, IEC 60068-2-1, NRS097-2-1					

* 1 The AC voltage range may vary depending on specific country grid standard. All specifications are subject to change without notice.
* The inverter supports 10 inverters in parallel (including in off-grid mode). If more than 6 inverters need to be paralleled, please consult Growatt team first for detail.

Battery System

ACE 209H-2H



- Easy to install and maintain
- Modular design, support for multiple parallel operations, flexible expansion of system scale
- Multiple security protection to ensure the safe operation of the system
- Independent management of battery racks, high stability
- Localized minimalist operation and maintenance, supporting remote fault diagnosis and upgrading

GROWATT · PRODUCT

Datasheet	ACE 209H-2H
Control module	ACE 1000140-C1
Number of power modules	1
Battery module	ACE 16.1H-E1
Battery module energy	16.128kWh
Number of modules in series	13
Energy energy	209.6kWh
Usable energy	188.64kWh
Dimension(W/H/D)*1	1200/2040/1165mm
Max. output power*2	100kW
Weight	≤2600kg
Nominal voltage	748.8V
Operating voltage range	655.2-854.1V
Nominal capacity	280Ah(@25°C)
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)
IP protection	IP55
Installation	Floor stand
Operating temperature	-25°C - 55°C (>45°C derating)
Relative humidity	5%~95%
Cooling	Smart air cooling
Warranty	5 years (opt. 10 years)
Altitude	3000m (>2000m derating)
Control Module	ACE 1000140-C1
Dimension(W/H/D)	453/228/800mm
Weight	≤25kg
Communication port	RS485/CAN/LAN
Operating voltage range	300V-1000Vdc
Maximum current	140A
Monitoring parameters	SOC, System voltage, current, cell voltage,cell temperature, PCBA temperature
Battery Module	ACE 16.1H-E1
Nominal energy	16.128kWh
Nominal voltage	57.6V
Pack operating voltage range	54V~65.7V
Dimension (W/H/D)	453/228/887mm
Battery module weight	≤135kg
IEC 62619, CE, UN38.3	

*1 Not including air-conditioning system.
*2 Depending on the max. battery charge/discharge power of the inverter.
* Nominal charge/discharge current and power derating will occur related to temperature and SOC.

Battery System

ACE 261H-2H



- Flexible deployment with 1.3m² installation area
- Efficient liquid-cooling temperature control, battery cell temperature difference≤2.5°C, maintains optimal operation
- Modular design, support for multiple parallel operations, flexible expansion of system scale
- Cell-level monitoring and diagnostics through the intelligent energy management cloud platform

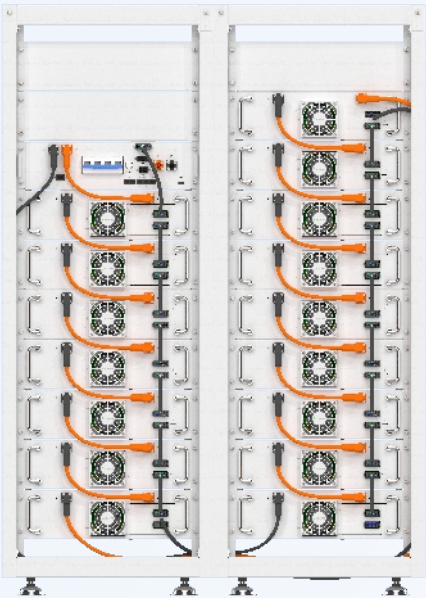
GROWATT · PRODUCT

Datasheet	ACE 261H-2H
Control module	HVC 1000314-C1
Number of power modules	1
Battery module	GBLI 52.2H-2H-H1
Battery module energy	52.24kWh
Number of modules in series	5
Energy energy	261.2kWh
Usable energy	235.1kWh
Dimension(W/H/D)	1000/2050/1300mm
Max. output power*1	130kW
Weight	≤2300kg
Nominal voltage	832V
Operating voltage range	728-936V
Nominal capacity	314Ah(@25°C)
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)
IP protection	IP55
Installation	Floor mount
Operating temperature	-25°C - 55°C (>45°C derating)
Relative humidity	5%~95%
Cooling	Liquid cooling
Warranty*2	5 years (opt. 10 years)
Altitude	3000m (>2000m derating)
Control Module	HVC 1000314-C1
Dimension(W/H/D)	766/168/800mm
Weight	≤20kg
Communication port	RS485/CAN
Max operating voltage	1000Vdc
Maximum current	314A
Battery Module	GBLI 52.2H-2H-H1
Nominal energy	52.24kWh
Nominal voltage	166.4V
Charging/discharging rate	≤0.5P
Dimension (W/H/D)	1140/243/770mm
Battery module weight	≤337kg
IEC 62619, CE, UN38.3	

*1 Depending on the max. battery charge/discharge power of the inverter.
*2 Detailed warranty terms should be negotiated with Growatt referring to the warranty agreement.
* Nominal charge/discharge current and power derating will occur related to temperature and SOC.

Battery System

AXE 75.0-80.0H-1HR-S1



- Adopt high –safety LFP battery
- Battery pack modular design, support 30 ~60kWh flexible expansion
- Support 1C continuous charge and discharge
- Battery pack compatible with 19 –inch cabinet installation
- Easy installation and maintenance
- Support multi-cabinet parallel operation

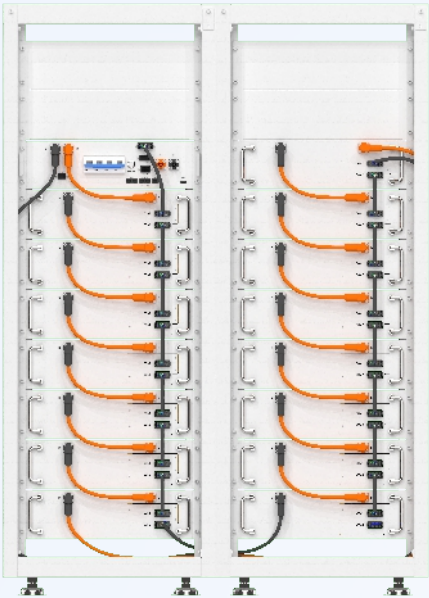
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Datasheet	AXE 75.0H-1HR-S1		AXE 80.0H-1HR-S1	
Control module	AXE 1000100-C1			
Number of control module	1			
Battery module	AXE 5.0H-E1 EU			
Battery module energy	5kWh			
Number of modules in series	15		16	
Energy capacity	75kWh		80kWh	
Usable capacity	67.5kWh		72kWh	
Rated output power	75kW		80kW	
Max. output power*1	75kW		80kW	
Dimension (W/H/D)	570/1560/660mm (per rack)			
Weight	≤0.80t		≤0.85t	
Nominal voltage	768V		819.2V	
Operating voltage range	696~864V		742.4~921.6V	
Nominal capacity	100Ah(@25℃)			
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)			
Ingress protection	IP20			
Installation	Floor stand			
Operating temperature	-10~50℃			
Relative humidity	5% ~ 95%			
Cooling	Fan-Cooling			
Warranty*2	5 years			
Noise emission	<65dB			
Maximum elevation	≤2000m			
Compatible PCS	WIT 50-100K-HU		WIT 50-100K-HU; WIT 100K-HU (P)	
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 EU		
Nominal energy	5kWh			
Nominal voltage	51.2V			
Pack operating voltage/range	46.4~56.8V			
Rated current	100A			
Peak current	150A@30s, 25℃			
Battery module dimension (W/H/D)	482/131/580mm			
Battery module weight	≤47kg			
UN 38.3, IEC 62619, IEC 62477, CE, RoHS				

*1 Depending on the max. battery charge/discharge power of the inverter.
*2 Detailed warranty terms should be negotiated with Growatt referring to the warranty agreement.
* Nominal charge/discharge current and power derating will occur related to temperature and SOC.

Battery System

AXE 75.0-80.0H-2HR-S1



- Adopt high -safety LFP battery
- Battery pack modular design, support 30 ~60kWh flexible expansion
- Support 1C continuous charge and discharge
- Battery pack compatible with 19 -inch cabinet installation
- Easy installation and maintenance
- Support multi-cabinet parallel operation

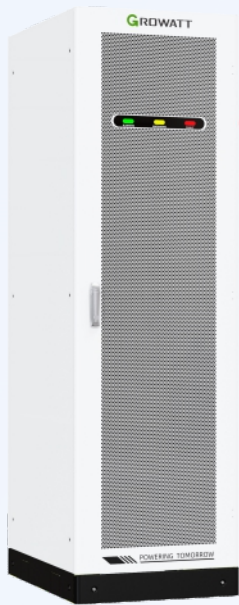
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Datasheet	AXE 75.0H-2HR-S1		AXE 80.0H-2HR-S1	
Control module	AXE 1000100-C1			
Number of control module	1			
Battery module	AXE 5.0H-2H B1			
Battery module energy	5kWh			
Number of modules in series	15		16	
Energy capacity	75kWh		80kWh	
Usable capacity	67.5kWh		72kWh	
Rated output power	37.5kW		40kW	
Max. output power*1	75kW		80kW	
Dimension (W/H/D)	570/1560/660mm (per rack)			
Weight	≤0.80t		≤0.85t	
Nominal voltage	768V		819.2V	
Operating voltage range	696~864V		742.4~921.6V	
Nominal capacity	100Ah(@25℃)			
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)			
Ingress protection	IP20			
Installation	Floor stand			
Operating temperature	-10~50℃			
Relative humidity	5% ~ 95%			
Cooling	Natural Air-Cooling			
Warranty*2	5 years			
Noise emission	<50dB			
Maximum elevation	≤2000m			
Compatible PCS	WIT 50-100K-HU		WIT 50-100K-HU; WIT 100K-HU (P)	
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-2H B1		
Nominal energy	5kWh			
Nominal voltage	51.2V			
Pack operating voltage/range	46.4~56.8V			
Rated current	50A			
Peak current	100A@30s, 25℃			
Battery module dimension (W/H/D)	482/131/580mm			
Battery module weight	≤47kg			
UN 38.3, IEC 62619, IEC 62477, CE, RoHS				

*1 Depending on the max. battery charge/discharge power of the inverter.
*2 Detailed warranty terms should be negotiated with Growatt referring to the warranty agreement.
* Nominal charge/discharge current and power derating will occur related to temperature and SOC.

Battery System

AXE 30.0-60.0H-1HC-E1



- Adopt high -safety LFP battery
- Battery pack modular design, support 30 ~60kWh flexible expansion
- Support 1C continuous charge and discharge
- Battery pack compatible with 19 -inch cabinet installation
- Easy installation and maintenance
- Support multi-cabinet parallel operation

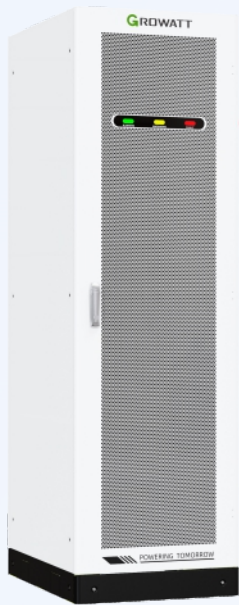
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Datasheet	AXE 30.0H-1HC-E1	AXE 35.0H-1HC-E1	AXE 40.0H-1HC-E1	AXE 50.0H-1HC-E1	AXE 60.0H-1HC-E1
Control module	AXE 1000100-C1				
Number of control module	1				
Battery module	AXE 5.0H-E1 EU				
Battery module energy	5kWh				
Number of modules in series	6	7	8	10	12
Energy capacity	30kWh	35kWh	40kWh	50kWh	60kWh
Usable capacity	27kWh	31.5kWh	36kWh	45kWh	54kWh
Rated output power	30kW	35kW	40kW	50kW	60kW
Max. output power*1	30kW	35kW	40kW	50kW	60kW
Dimension (W/H/D)	600/2000/800mm				
Weight	≤0.48t	≤0.53t	≤0.58t	≤0.7t	≤0.8t
Nominal voltage	307.2V	358.4V	409.6V	512V	614.4V
Operating voltage range	278.4~340.8V	324.8~397.6V	371.2~454.4V	464~568V	556.8~681.6V
Nominal capacity	100Ah(@25℃)				
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)				
Ingress protection	IP20				
Installation	Floor stand				
Operating temperature	-10~50℃				
Relative humidity	5% ~ 95%				
Cooling	Fan-Cooling				
Warranty*2	5 years				
Noise emission	<60dB				
Maximum elevation	≤2000m				
Control Module					
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					
Nominal energy	5kWh				
Nominal voltage	51.2V				
Pack operating voltage/range	46.4~56.8V				
Battery module dimension (W/H/D)	482/131/580mm				
Battery module weight	≤47kg				
UN 38.3, IEC 62619, IEC 62477, CE, RoHS, UKCA					

*1 Depending on the max. battery charge/discharge power of the inverter.
*2 Detailed warranty terms should be negotiated with Growatt referring to the warranty agreement.
* Nominal charge/discharge current and power derating will occur related to temperature and SOC.

Battery System

AXE 30.0-60.0H-2HC-S1



- Adopt high -safety LFP battery
- Battery pack modular design, support 30 ~60kWh flexible expansion
- Battery pack compatible with 19 -inch cabinet installation
- Easy installation and maintenance
- Support multi-cabinet parallel operation

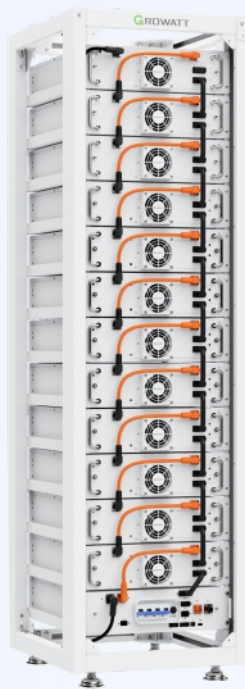
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Datasheet	AXE 30.0H-2HC-S1	AXE 35.0H-2HC-S1	AXE 40.0H-2HC-S1	AXE 50.0H-2HC-S1	AXE 60.0H-2HC-S1
Control module	AXE 1000100-C1				
Number of control module	1				
Battery module	AXE 5.0H-2H-B1				
Battery module energy	5kWh				
Number of modules in series	6	7	8	10	12
Energy capacity	30kWh	35kWh	40kWh	50kWh	60kWh
Usable capacity	27kWh	31.5kWh	36kWh	45kWh	54kWh
Rated output power	15kW	17.5kW	20kW	25kW	30kW
Max. output power*1	30kW	35kW	40kW	50kW	60kW
Dimension (W/H/D)	600/2000/800mm				
Weight	≤0.48t	≤0.53t	≤0.58t	≤0.7t	≤0.8t
Nominal voltage	307.2V	358.4V	409.6V	512V	614.4V
Operating voltage range	278.4~340.8V	324.8~397.6V	371.2~454.4V	464~568V	556.8~681.6V
Nominal capacity	100Ah(@25℃)				
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)				
Ingress protection	IP20				
Installation	Floor stand				
Operating temperature	-10~50℃				
Relative humidity	5% ~ 95%				
Cooling	Natural Air-Cooling				
Warranty*2	5 years (opt. 10 years)				
Noise emission	<60dB				
Maximum elevation	≤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-2H-B1					
Nominal energy	5kWh				
Nominal voltage	51.2V				
Pack operating voltage/range	46.4~56.8V				
Battery module dimension (W/H/D)	482/131/580mm				
Battery module weight	≤47kg				
UN 38.3, IEC 62619, IEC 62477, CE, RoHS, UKCA					

*1 Depending on the max. battery charge/discharge power of the inverter.
*2 Detailed warranty terms should be negotiated with Growatt referring to the warranty agreement.
* Nominal charge/discharge current and power derating will occur related to temperature and SOC.

Battery System

AXE 30.0-60.0H-1HR-E1



- Adopt high -safety LFP battery
- Battery pack modular design, support 30 ~60kWh flexible expansion
- Support 1C continuous charge and discharge
- Battery pack compatible with 19 -inch cabinet installation
- Easy installation and maintenance
- Support multi-rack parallel operation

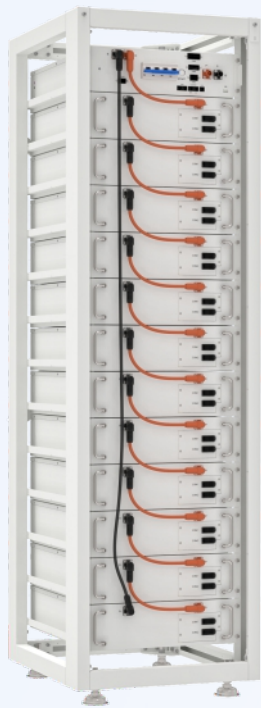
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Datasheet	AXE 30.0H-1HR-E1	AXE 35.0H-1HR-E1	AXE 40.0H-1HR-E1	AXE 50.0H-1HR-E1	AXE 60.0H-1HR-E1
Control module	AXE 1000100-C1				
Number of control module	1				
Battery module	AXE 5.0H-E1 EU				
Battery module energy	5kWh				
Number of modules in series	6	7	8	10	12
Energy capacity	30kWh	35kWh	40kWh	50kWh	60kWh
Usable capacity	27kWh	31.5kWh	36kWh	45kWh	54kWh
Rated output power	30kW	35kW	40kW	50kW	60kW
Max. output power*1	30kW	35kW	40kW	50kW	60kW
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	614.4V
Operating voltage range	278.4~340.8V	324.8~397.6V	371.2~454.4V	464~568V	556.8~681.6V
Nominal capacity	100Ah(@25℃)				
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)				
Ingress protection	IP20				
Installation	Floor stand				
Operating temperature	-10~50℃				
Relative humidity	5% ~ 95%				
Cooling	Fan-Cooling				
Warranty*2	5 years				
Noise emission	<60dB				
Maximum elevation	≤2000m				
Control ModuleAXE 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 ModuleAXE 5.0H-E1 EU					
Nominal energy	5kWh				
Nominal voltage	51.2V				
Pack operating voltage/range	46.4~56.8V				
Battery module dimension (W/H/D)	482/131/580mm				
Battery module weight	≤47kg				
UN 38.3, IEC 62619, IEC 62477, CE, RoHS, UKCA					

*1 Depending on the max. battery charge/discharge power of the inverter.
*2 Detailed warranty terms should be negotiated with Growatt referring to the warranty agreement.
* Nominal charge/discharge current and power derating will occur related to temperature and SOC.

Battery System

AXE 30.0-60.0H-2HR-S1



- Adopt high -safety LFP battery
- Battery pack modular design, support 30 ~60kWh flexible expansion
- Battery pack compatible with 19 -inch cabinet installation
- Easy installation and maintenance
- Support multi-rack parallel operation

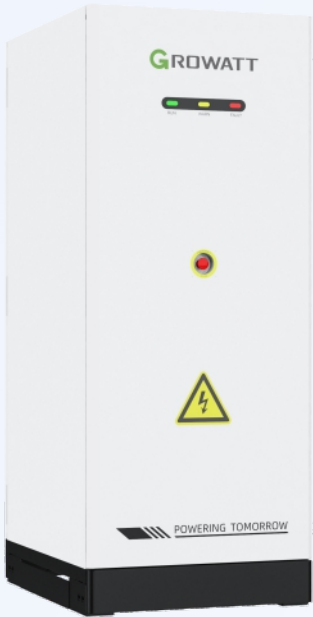
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Datasheet	AXE 30.0H-2HR-S1	AXE 35.0H-2HR-S1	AXE 40.0H-2HR-S1	AXE 50.0H-2HR-S1	AXE 60.0H-2HR-S1
Control module	AXE 1000100-C1				
Number of control module	1				
Battery module	AXE 5.0H-2H-B1				
Battery module energy	5kWh				
Number of modules in series	6	7	8	10	12
Energy capacity	30kWh	35kWh	40kWh	50kWh	60kWh
Usable capacity	27kWh	31.5kWh	36kWh	45kWh	54kWh
Rated output power	15kW	17.5kW	20kW	25kW	30kW
Max. output power*1	30kW	35kW	40kW	50kW	60kW
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	614.4V
Operating voltage range	278.4~340.8V	324.8~397.6V	371.2~454.4V	464~568V	556.8~681.6V
Nominal capacity	100Ah(@25℃)				
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)				
Ingress protection	IP20				
Installation	Floor stand				
Operating temperature	-10~50℃				
Relative humidity	5% ~ 95%				
Cooling	Natural Air-Cooling				
Warranty*2	5 years (opt. 10 years)				
Noise emission	<60dB				
Maximum elevation	≤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-2H-B1		
Nominal energy	5kWh				
Nominal voltage	51.2V				
Pack operating voltage/range	46.4~56.8V				
Battery module dimension (W/H/D)	482/131/580mm				
Battery module weight	≤47kg				
UN 38.3, IEC 62619, IEC 62477, CE, RoHS, UKCA					

*1 Depending on the max. battery charge/discharge power of the inverter.
*2 Detailed warranty terms should be negotiated with Growatt referring to the warranty agreement.
* Nominal charge/discharge current and power derating will occur related to temperature and SOC.

Battery System

AXE 50.0-60.0H-1HT-S1



- Adopt high -safety LFP battery
- Support 1C continuous charge and discharge
- IP55 design, support whole cabinet transportation
- Easy installation and maintenance
- Support multi-cabinet parallel operation

GROWATT · PRODUCT

Datasheet	AXE 50.0H-1HT-S1		AXE 60.0H-1HT-S1	
System Data				
Control module	AXE 1000100-C1			
Number of control module	1			
Battery module	AXE 5.0H-E1 EU			
Battery module energy	5kWh			
Number of modules in series	10		12	
Energy capacity	50kWh		60kWh	
Usable Capacity	45kWh		54kWh	
Rated output power	50kW		60kW	
Max. output power*1	50kW		60kW	
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	
Nominal capacity	100Ah(@25°C)			
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)			
IP Protection	IP55			
Installation	Floor stand			
Operating temperature	-25~55°C			
Relative humidity	5% ~ 95%			
Cooling	Air-Conditioning			
Warranty*2	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 EU		
Nominal energy	5.12kWh			
Nominal voltage	51.2V			
Pack operating voltage range	46.4~56.8V			
Battery module dimension (W/H/D)	482.6/131/580mm			
Battery module weight	≤47kg			
UN 38.3, IEC 62619, IEC 62477, CE, RoHS, UKCA				

*1 Depending on the max. battery charge/discharge power of the inverter.
*2 Detailed warranty terms should be negotiated with Growatt referring to the warranty agreement.
* Nominal charge/discharge current and power derating will occur related to temperature and SOC.

ShineWiLan-X2



- Online monitoring and maintenance
- Integrated with WLAN, Lan and Bluetooth modules
- Built-in memory for up to one month of data
- Local configuration and firmware upgrade function



GROWATT · PRODUCT

Datasheet	ShineWiLan-X2
Wireless Parameters	
Wireless standard	802.11 b/g/n BLE:4.2
Wireless frequency range	2.4GHz
Transmit power	802.11b: 19.5±2 dBm (@11Mbps) 802.11g: 14±2dBm (@54Mbps) 802.11n: 18±2dBm (@HT20, MCS0) 802.11n: 13±2dBm (@HT20, MCS7) BLE:0±2dBm(@1Mbps)
Receiver sensitivity	CCK, 1 Mbps : -97dBm±2dBm CCK, 11 Mbps: -88dBm±2dBm 6 Mbps (1/2 BPSK): -92dBm±2dBm 54 Mbps (3/4 64-QAM): -75dBm±2dBm HT20, (MCS0) : -92±2dBm HT20, (MCS7) : -72±2dBm HT40, (MCS7) : -89±2dBm HT40, (MCS7) : -69±2dBm BLE:-93±2dBm (@1M,30.8%PER)
Theoretical communication distance	LAN:100m (Cat5e) WiFi:50m (without obstruction)
Hardware Parameters	
Data interface	USB
Nominal voltage	5V(+/-5%)
Typical power consumption	2.5W
Display	LED
Working temperature	-30°C ~ +65°C
Storage temperature	-40°C ~ +70 °C
Protection grade	IP65
Application Parameters	
Supported servers	ShineServer
Inverter communication	Modbus RTU
Server communication	MQTT
Supported networks	2.4GHz WiFi, Bluetooth 4.2
User configuration interface	APP Configuration
Data transmission interval	5 Minutes
Default server URL	server.growatt.com
General Data	
Dimensions (W/H/D)	47/152/28mm
Weight	94g
CE, UKCA, SAA, RoHS	

Smart Meter Suite



- High measurement accuracy
- LCD display, easy to set and check
- Meter with 3CTs for easy installation
- Compatible with GROWATT WIT series inverter

GROWATT · PRODUCT

Datasheet	TPM-CT-E-EU		TPM-CT-C-EU	
General Data				
Dimension (W/H/D)	94.5/65/72mm		100/65/72mm	
Weight	220g/0.485lbs		300g	
Mounting type	DIN rail 35mm (1.37inch)			
Operating temperature range	-13°F to + 131°F (-25°C to +55°C)		-25°C ~75°C	
Storage temperature range	-40°F to +158°F (-40°C ~70°C)			
Operating humidity	0 ~ 90%		0 ~ 75%	
Environment protection rating	IP51/NEMA 12			
Power Supply				
Power grid type	3P3W/3P4W			
Input voltage range	173 ~ 480 VAC (3P3W)L-L 100 ~ 276 VAC (3P4W)L-N		304 ~ 460 VAC (3P3W)L-L 176 ~ 264.5 VAC (3P4W)L-N	
Frequency	50/60Hz			
Measurement Range				
Current accuracy	0.2%		1.0%	
Communication				
Interface	RS485			
Baud rate	9600			
Communication protocol	Modbus RTU			
CE				
CT Information				
CT number	3*CT			
Maximum detection	250A	600A	1200A	
Inner diameter	30*20mm	60*40mm	120*80mm	
Demos				

ShineSEM-XA-RM



- Online monitoring and export limitation for the whole system
- Up to 6 units of inverters in management
- Support Ethernet,RS485 communication
- IP66 protection degree

GROWATT · PRODUCT

Datasheet	ShineSEM-XA-RM
Communication	
RS485	Yes
Ethernet	Yes
PLC	No
Ring network switch	No
Communication distance	RS485: 1000m Ethernet cable:100m
General Data	
Dimensions (W/H/D)	398/450/158mm
Weight	13.5kg
Operation temperature range	-30°C~65°C
Protection rating	IP66
Relative humidity	5%~95%,no-condensing
Placement	Indoors/Outdoors
Altitude	4000m
Meter Data	
Nominal input voltage	208V/220V/400V/480V
Input voltage range	155V~528V
Nominal input frequency	50/60Hz
Grid connection	3W+N+PE
CE, RoHS, UL	

CT Data*1				
	250A	600A	1200A	2000A
Max. current (CT detection)				
Max. input current (CT second side)	5A			
Accuracy (@rated CT current)	0.5S			

* 1 CT model is selected according to the maximum current of system's grid side.

EU SYN 600E-30



- Switching time ≤100ms
- Supporting self-feeding and self-restoring
- Modular design, easy to install and maintain
- Automatically switch to the intermediate state when the power supply is missing

GROWATT · PRODUCT

Datasheet	EU SYN 600E-30
Input Data(AC/Grid)	
Max. AC apparent power	330kVA
Nominal AC voltage	380/400/415V
AC grid frequency	50Hz/60Hz
Max. input current	600A
AC grid connection type	3P4W+PE
Input Data(GEN)	
Max. AC apparent power	330kVA
Nominal AC voltage	380/400/415V
AC grid frequency	50Hz/60Hz
Max. input current	600A
AC grid connection type	3P4W+PE
Output Data(Load)	
AC nominal power	300kW
Max. AC apparent power	330kVA
Nominal AC voltage/range	380/400/415V
Max. output current	600A
General Data	
Dimensions (W/H/D)	700/900/376mm
Weight	65kg
Operating temperature range	-25°C ~ 60°C (>50°C derating)
Altitude	4000m
Cooling	Nature convection
Protection degree	IP66
Installation	Wall Mountable

CZECHIA 100KW HYBRID SYSTEM

- ▶ 100kW+200kWh system
- ▶ Czechia



NIGERIA 200KW HYBRID SYSTEM

- ▶ 200kW+418kWh system
- ▶ Nigeria



INDUSTRIAL PARK TOU PROFIT STATION

- ▶ Shandong Province, China
- ▶ 5 sets of ENSE 209H-2H
- ▶ 500kW/1MWh
- ▶ Henan Province, China
- ▶ 2 sets of ENSE 209H-2H
- ▶ 200kW/400kWh



- ▶ Jiangsu Province, China
- ▶ 2*4 sets of ENSE 261H-2H
- ▶ 1000kW/2088kWh



- ▶ Jiangsu Province, China
- ▶ 5 sets of ENSE 261H-2H
- ▶ 625kW/1305kWh



- ▶ Guangdong Province, China
- ▶ 1 set of ENSE 209H-2H
- ▶ 100kW/209kWh



U.S.A. LARGE-SCALE OFF-GRID HYBRID ESS MATRIX

- ▶ WIT 100K-H & WIT 63K-H
- ▶ 60 sets of WIT inverter + Lead-carbon battery

