

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



2026 Global

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.



As a global leading distributed energy solution provider, Growatt holds the No.1 position in residential PV inverter shipments worldwide, while ranking among the Top 3 hybrid and Top 5 commercial PV inverter suppliers. These achievements are recognized by S&P Global Commodity Insights, underscoring our global influence and trusted reputation.

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 274 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 63 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.

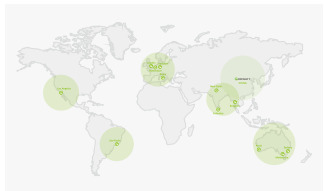
2026
2011



5,100,000+
Inverters

700,000+
Battery Packs

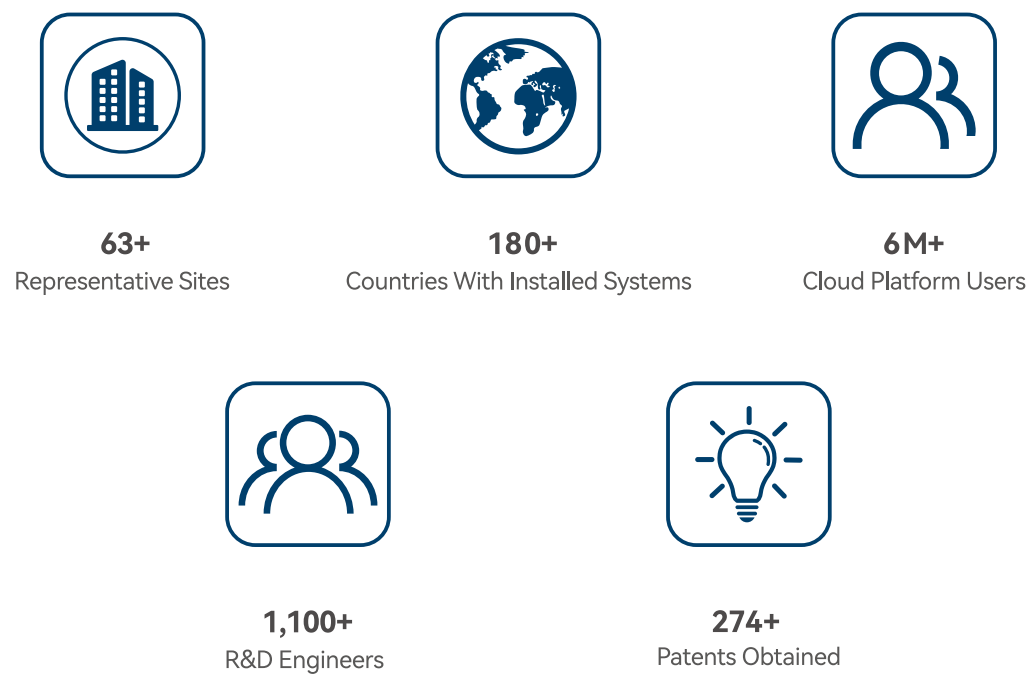
Annual Production Capacity



180+

Countries With Installed Systems

OUR STRENGTH IN DATA



HONORS & AWARDS



GLOBAL NETWORK



TOP BRAND PV AWARDS



Growatt C&I Storage Solution

GLOBAL LEADING
DISTRIBUTED ENERGY SOLUTION PROVIDER

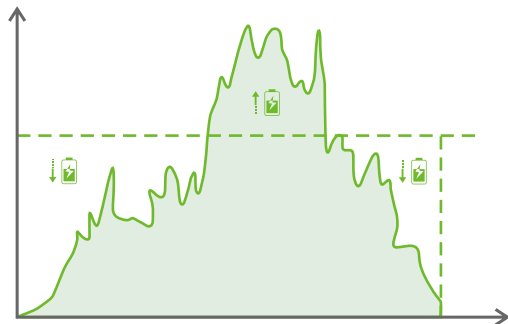


*The AXE 75.0H-1HR-E1 is consist of two cluster of battery rack.

Commercial & Industrial ESS Applications

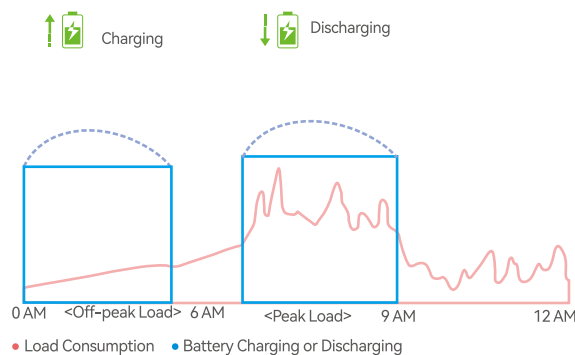
Self-Consumption:

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



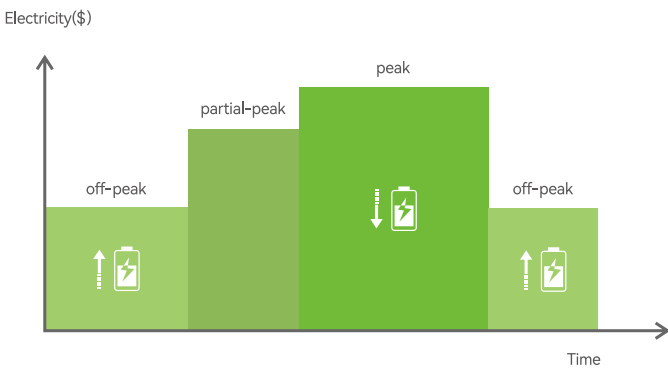
Peak Shaving:

Discharging at peak load and charge the battery at off-peak load.



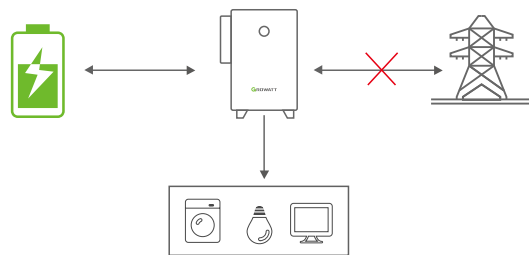
Time of Use:

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



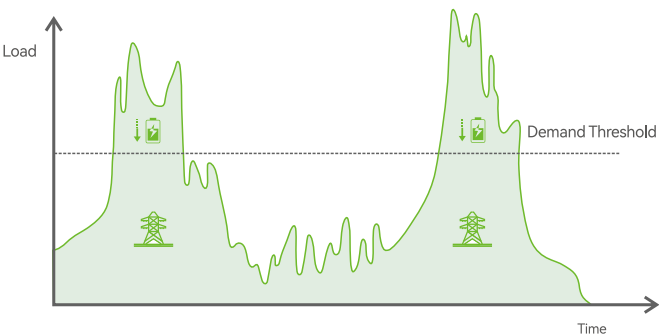
Backup Power:

Discharging when the grid is black-out and provide back-up power support.



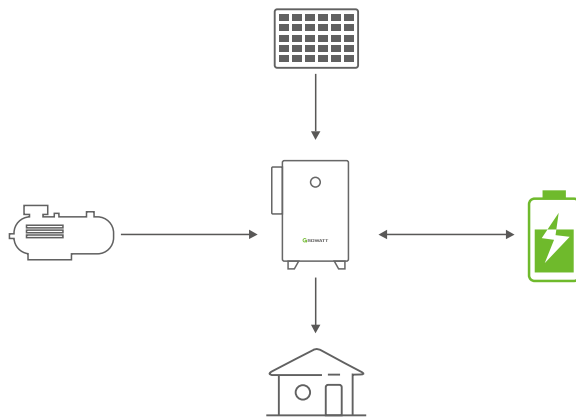
Demand Charge:

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



Micro-grid:

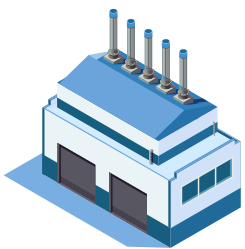
Work with multiple energy source to guarantee 24/7 power supply where there is no grid.



From factory to field, your system will be fully quality guaranteed



Manufacturing

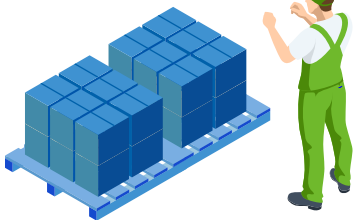


Pre-commissioning



Transportation

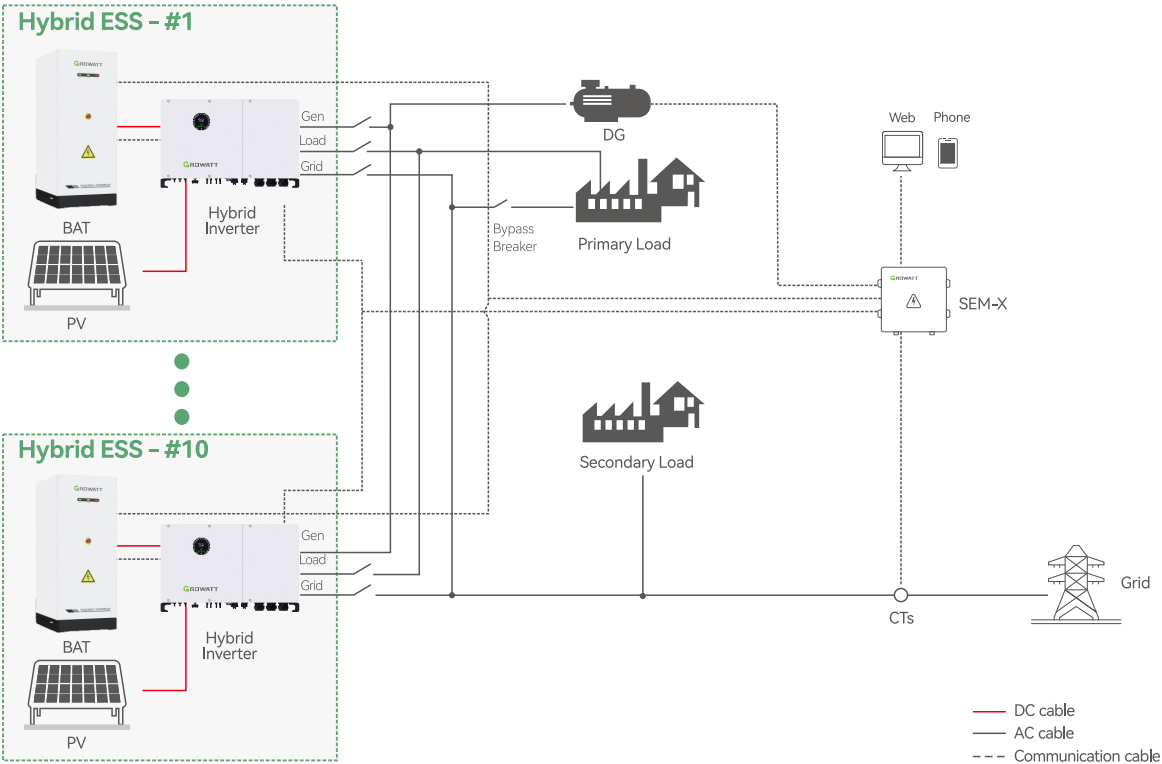
Installation



Commercial & Industrial ESS Solutions

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

ESS for On/Off-Grid Solution 29.9-500kW/30-1080MWh Systems

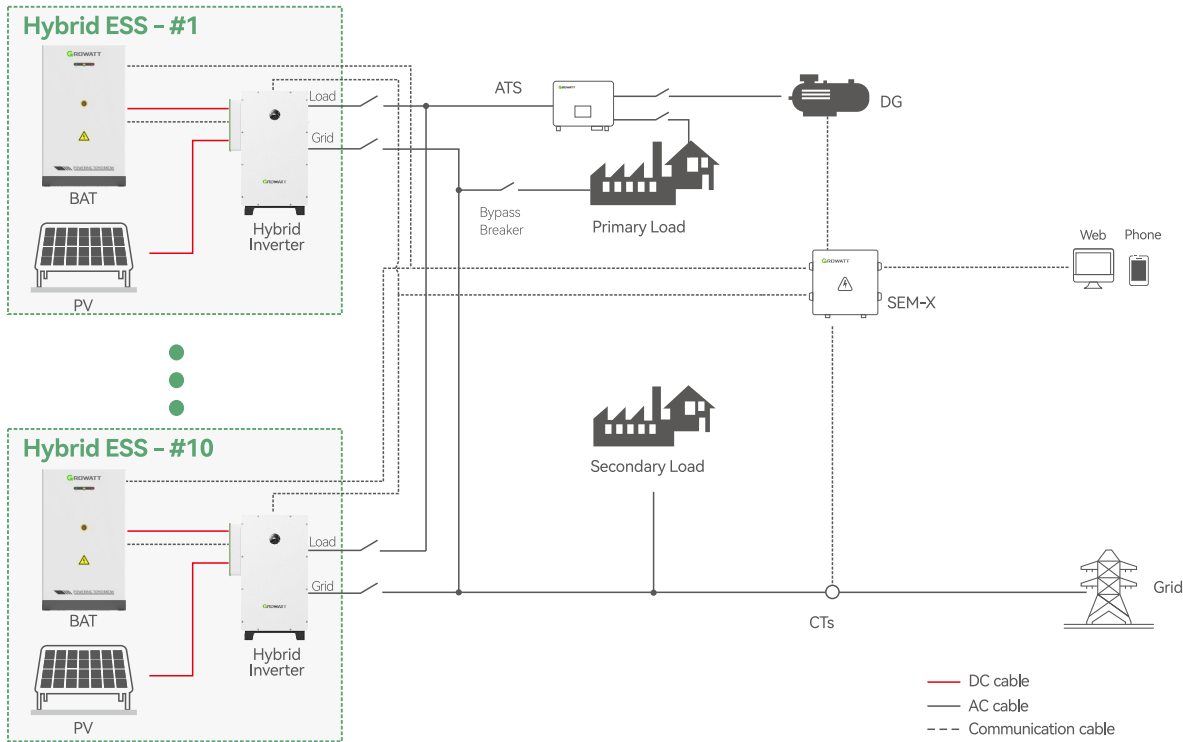


System Components					
29.9-50kW/30-180kWh System			60-500kW/60-1080kWh System		
WIT 29.9-50K-XHU	1 Pcs		WIT 29.9-50K-XHU	1 Pcs	WIT 29.9-50K-XHU 2-10 Pcs
AXE 30.0-60.0H-1HR-E1	1-3 Set		AXE 60.0H-1HT-S1	1-3 Set	AXE 60.0H-1HT-S1 2-10 Set
TPM-CT-C/E-EU	1 Set		TPM-CT-C/E-EU	1 Set	SEM-XA-R 1 Pcs
ShineWiLAN-X2	1 Pcs		ShineWiLAN-X2	1 Pcs	CTs 1 Set

- Remark:**
1. Up to 10 WIT inverters can run in parallel;
 2. SEM-XA-R has a built-in meter;
 3. In multiple system, the primary load power should not exceeds the 80% of system output power.
 4. The generator power should not be less than the primary load power.

- WIT 50-100K-HU + ACE 209/261H-2H
- WIT 50-100K-HU + AXE 75.0H-1HR-E1

ESS for On/Off-Grid Solution 50-1000kW/75-2610kWh Systems



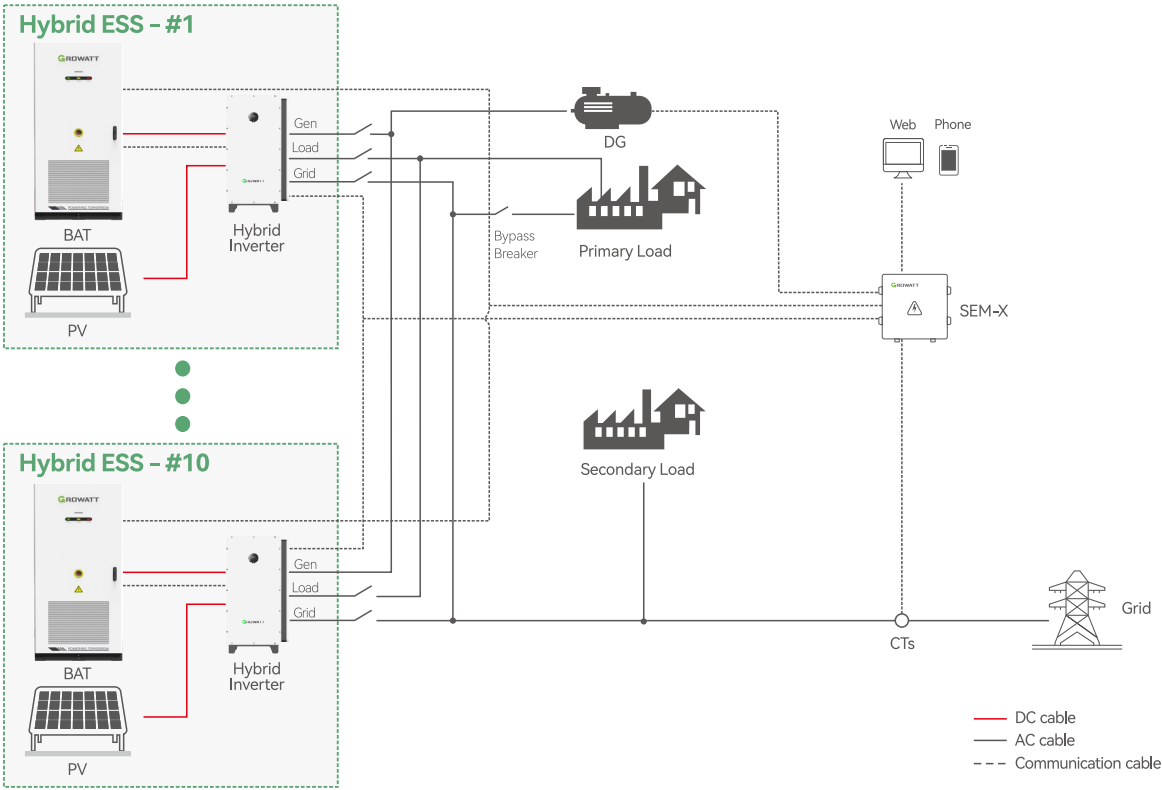
System Components					
50-100kW/209-261kWh System		50-100kW/75-300Wh System		0.1-1MW/0.2-2.61MWh System	
WIT 50-100K-HU	1 Pcs	WIT 50-100K-HU	1 Pcs	WIT 50-100K-HU	2-10 Pcs
ACE 209/261H-2H	1 Set	AXE 75.0H-1HR-E1	1-4 Set	ACE 209/261H-2H	2-10 Set
SEM-XA-R	1 Pcs	TPM-CT-C/E-EU	1 Set	SEM-XA-R	1 Pcs
CTs	1 Set	(Opt.) EU SYN 600E-30	1 Pcs	CTs	1 Set
(Opt.) EU SYN 600E-30	1 Pcs			(Opt.) EU SYN 600E-30	1 Pcs

- Remark:**
1. Up to 10 WIT inverters can run in parallel in on/off-grid mode;
 2. SEM-XA-R has a built-in meter;
 3. In multiple system, the primary load power should not exceeds the 80% of system output power;
 4. The generator power should not be less than the primary load power.
 5. The EU SYN 600E-30 is an optional accessory which is used for generator integration.

Growatt New-Generation Commercial & Industrial ESS Solutions

• WIT 63-125K-XHU + ACE 261H-2H

ESS for On/Off-Grid Solution 63-1250kW/0.2-2.61MWh Systems



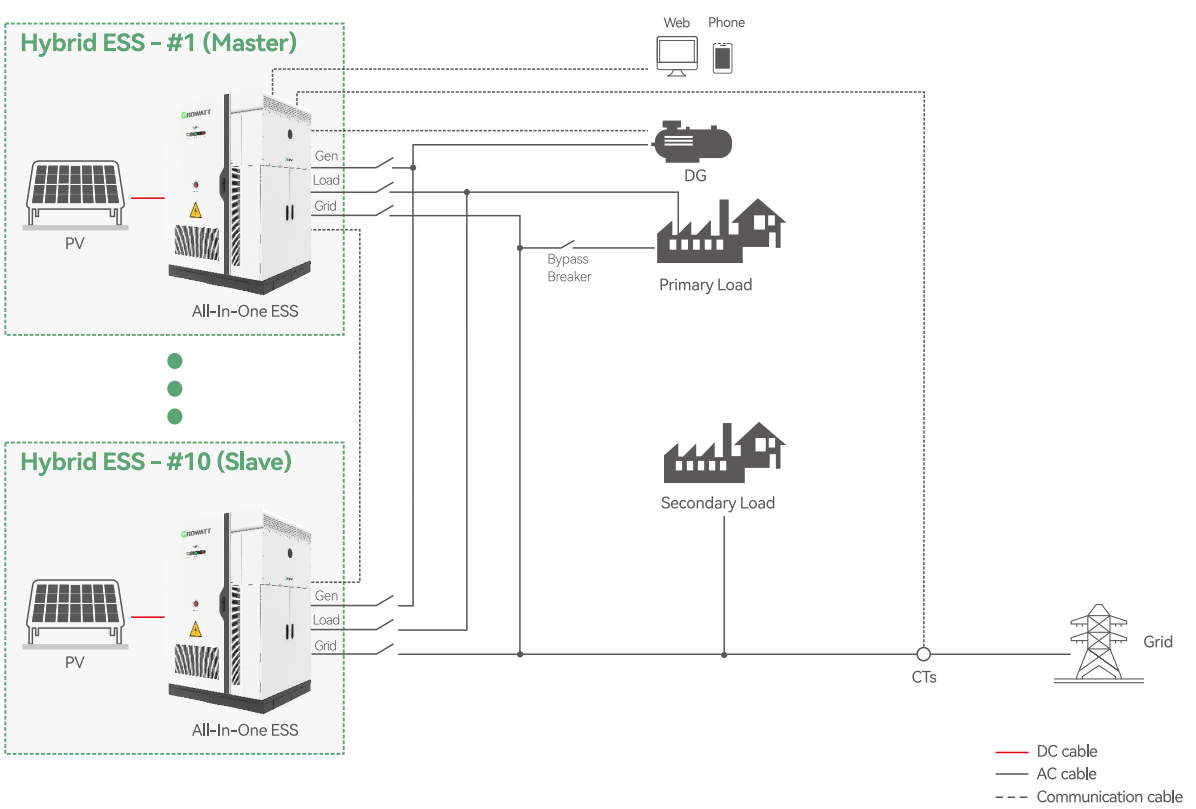
System Components

63kW-1.25MW/0.2-2.61MWh System	
WIT 63-125K-XHU	1-10 Pcs
ACE 261H-2H	1-10 Set
SEM-XA-R	1 Pcs
CTs	1 Set

- Remark:**
- Up to 10 WIT inverters can run in parallel in on/off-grid mode;
 - SEM-XA-R has a built-in meter;
 - In multiple system, the primary load power should not exceeds the 80% of system output power;
 - The generator power should not be less than the primary load power.

• RISE 261H-XH All-In-One System

ESS for On/Off-Grid Solution 50-1250kW/0.2-2.61MWh Systems



System Components

50kW-1.25MW/0.2-2.61MWh System	
RISE 261H-XH	1-10 Set
CTs	1 Set

- Remark:**
- Up to 10 RISE all-in-one ESS can run in parallel;
 - The single system is consist of one master unit of RISE. The parallel system is consist of one master unit and multiple slave units of RISE.
 - The EMS and smart meter is included in master unit of RISE;
 - In multiple system, the primary load power should not exceeds the 80% of system output power.
 - The generator power should not be less than the primary load power.

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

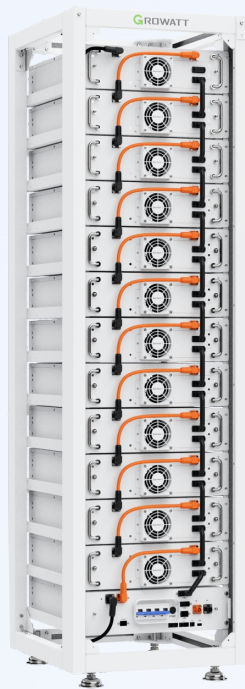
GROWATT · PRODUCT

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%				
Compatible battery model	AXE 30.0-60.0H-1HR-E1, AXE 60.0H-1HT-S1				
Interfaces					
Display	OLED+LED/APP				
Interfaces	RS485/USB/CAN, WIFI/LAN(Optional)				
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, C10/11 IEC 61000-3-11, EN 55011, EN 50549-1/10, G99/100, CEI-0-16, CEI-0-21, IEC 62116, IEC 61727, IEC 61683, IEC 60068-2-1, NRS097-2-1 UNE 217001/UNE 217002, NTS 631 Type A&B, PN-EN 50549, PTPIREE, VDE 4105					

*The AC voltage range may vary depending on specific country grid standard. All specifications are subject to change without notice.

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

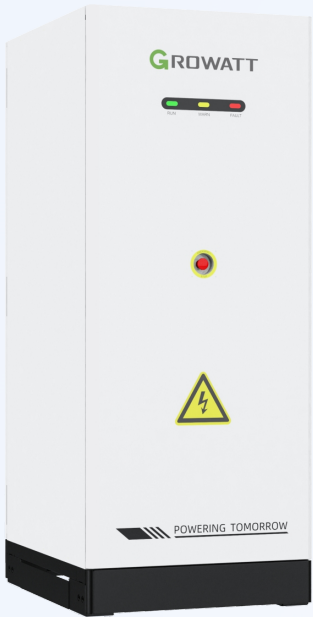
GROWATT · PRODUCT

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 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				
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 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

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Datasheet	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	12
Energy capacity	60kWh
Usable Capacity	54kWh
Rated output power	60kW
Max. output power*1	60kW
Dimension (W/H/D)	800/2000/1000mm
Weight	≤1t
Nominal voltage	614.4V
Operating voltage range	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
Compatible inverter model	WIT 29.9~50K-XHU
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, UL9540A	

*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.

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

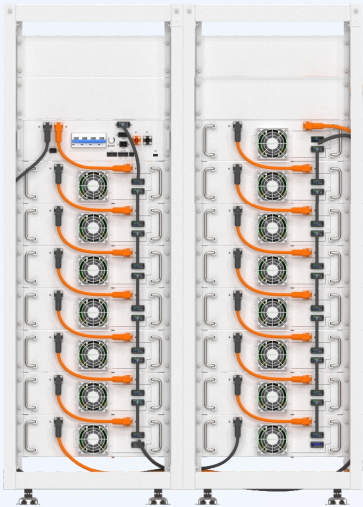
GROWATT · PRODUCT

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) (>900V 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		
Compatible battery model		ACE 209H-2H, AXE 75.0H-1HR-E1		
EN 62920-2017, IEC/EN 62477-1, IEC/EN 62109-1, IEC/EN 62109-2, IEC 62116, IEC 61727, G99:2020, EN 50549-1/10, VDE 4105, NRS 097-2-1				

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

Battery System

AXE 75.0H-1HR-E1



- Adopt high –safety LFP battery
- Long life span, supports 5 years cycle life
- Support 1C continuous charge and discharge
- Easy installation and maintenance
- Support multi-cabinet parallel operation

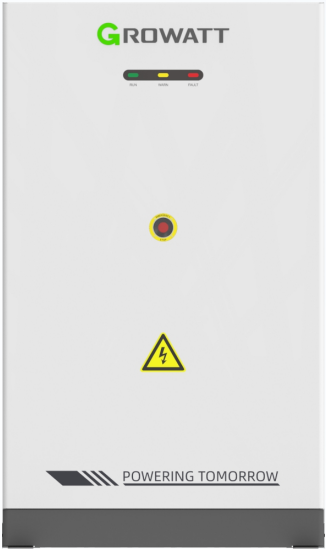
GROWATT · PRODUCT

Datasheet	AXE 75.0H-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	15
Energy capacity	75kWh
Usable capacity	67.5kWh
Rated output power	75kW
Max. output power*1	75kW
Dimension (W/H/D)	570/1560/660mm (per rack)
Weight	≤0.80t
Nominal voltage	768V
Operating voltage range	696~864V
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	Air-Cooling
Warranty*2	5 years
Noise emission	<65dB
Maximum elevation	≤2000m
Compatible PCS	WIT 50-100K-HU
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
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

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



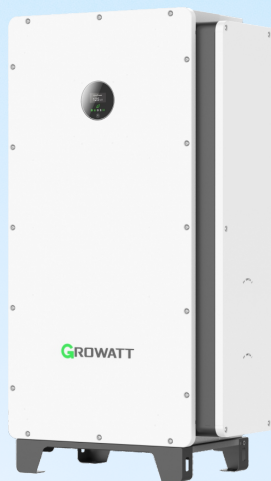
GROWATT · PRODUCT

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	1200/2040/1385mm
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	Air conditioned
Warranty	5 years (opt. 10 years)
Altitude	3000m (>2000m derating)
Control Module	
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	
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.

WIT 63-125kW Hybrid Inverter

WIT 63-125K-XHU



- Multiple MPPTs input, 2.0 DC/AC ratio
- Wide battery voltage range
- 100% unbalanced load when backup
- 160% rated AC overload capability
- Built-in UPS function and black start
- Supports DG integration and smart load
- Scalable to 10 units for off-grid parallel operation
- Widely adaptable to third-party batteries

GROWATT · PRODUCT

Datasheet	WIT 63K-XHU	WIT 75K-XHU	WIT 85K-XHU	WIT 100K-XHU	WIT 125K-XHU
Input Data (PV)					
Max. recommended PV power (for module STC)	126kW	150kW	170kW	200kW	250kW
Start voltage			195V		
Max. open circuit voltage of PV			1000V		
MPPT nominal voltage/range			180V-1000V		
Max. input current per MPP tracker			42A		
Max. short-circuit current per MPP tracker			50A		
No. of PV strings per MPP tracker			2		
No. of MPP trackers			10		
Output Data (AC)					
AC nominal power	63kW	75kW	85kW	100kW	125kW
Max. AC apparent power	69.3kVA	82.5kVA	93.5kVA	110kVA	137.5kVA
Nominal AC voltage/range			380/400/415V, -15%~+10%		
AC grid frequency/range			50/60Hz, 45-55Hz/55-65Hz		
Max. output current	105A	125A	141.7A	166.7A	208.3A
Adjustable power factor			-1...+1		
THDi			<3% (@100% load)		
AC grid connection type			3P3W+PE/3P4W+PE		
Input Data (AC/GEN)					
Nominal AC voltage/range			380/400/415V, -15%~+10%		
Nominal AC grid frequency/range			50/60Hz, 45-55Hz/55-65Hz		
AC grid connection type			3P3W+PE/3P4W+PE		
Rated input power	63kW	75kW	85kW	100kW	125kW
Max. input current			250A		
Battery Data (DC)					
Continuous charging and discharging power	63kW	75kW	85kW	100kW	125kW
Battery voltage range			180-1000V(<580V&>900V derating)		
Max charging and discharging current			200A		
BMS communication			RS485/CAN		
Backup Power (AC)					
Rated AC output power	63kW	75kW	85kW	100kW	125kW
Max. AC apparent power	69.3kVA	82.5kVA	93.5kVA	110kVA	137.5kVA
Nominal AC voltage			220/230/240V(L-N), 380/400/415V(L-L)		
Nominal AC output frequency			50/60Hz		
Load connection			3P3W+PE/3P4W+PE		
Max. output current	105A	125A	141.7A	166.7A	208.3A
THDv			<3% (Linear load)		
Load unbalance			100% three-phase unbalanced		
Overload capacity			≤110%: Continues; 160%: 10s		
On/Off grid transfer time			≤10ms		
Efficiency					
Max. efficiency			98.5%		
Protection Devices					
DC 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			Yes		
General					
Dimensions (W/H/D)			720/1360/400mm		
Weight			160kg		
Operating temperature range			-30℃~60℃, >50℃ derating		
Relative humidity			0~100%		
Altitude			≤4000m		
Topology			Transformerless		
Cooling			Smart air cooling		
Enclosure			IP66		
Display			OLED+LED/WIFI+APP		
Interfaces: RS485/CAN			Yes		
Interfaces: WIFI/4G/LAN			Opt		
Warranty (5/10 years)			Yes/Opt		
Compatible battery model			ACE 261H-2H		
EN 62920-2017, IEC/EN 62477-1, IEC/EN 62109-1/2, IEC 62116, IEC 61000, IEC 61727, IEC 61683, IEC 60068 G99/100, EN 50549-1/2/10, NRS 097-2-1, CEI-0-16-/21, UNE 217001/UNE 217002, NTS 631 Type A&B					

WIT 63-125kW Hybrid Inverter

WIT 63-125K-XHU-H



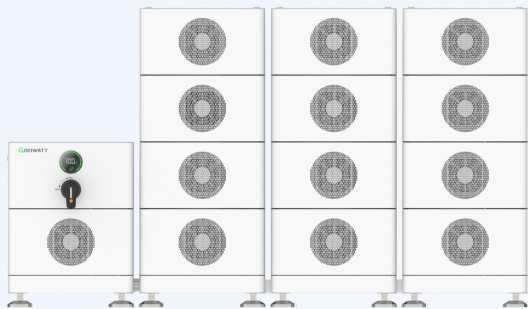
- Multiple MPPTs input, 2.0 DC/AC ratio
- Wide battery voltage range
- 100% unbalanced load when backup
- 160% rated AC overload capability
- Built-in UPS function and black start
- Supports DG integration and smart load
- Scalable to 10 units for off-grid parallel operation
- Widely adaptable to third-party batteries

GROWATT · PRODUCT

Datasheet	WIT 63K-XHU-H	WIT 75K-XHU-H	WIT 85K-XHU-H	WIT 100K-XHU-H	WIT 125K-XHU-H
Input Data (PV)					
Max. recommended PV power (for module STC)	126kW	150kW	170kW	200kW	250kW
Start voltage			195V		
Max. open circuit voltage of PV			1000V		
MPPT nominal voltage/range			180V-1000V		
Max. input current per MPP tracker			42A		
Max. short-circuit current per MPP tracker			50A		
No. of PV strings per MPP tracker			2		
No. of MPP trackers			10		
Output Data (AC)					
AC nominal power	63kW	75kW	85kW	100kW	125kW
Max. AC apparent power	69.3kVA	82.5kVA	93.5kVA	110kVA	137.5kVA
Nominal AC voltage/range			380/400/415V, -15%~+10%		
AC grid frequency/range			50/60Hz, 45-55Hz/55-65Hz		
Max. output current	105A	125A	141.7A	166.7A	208.3A
Adjustable power factor			-1...+1		
THDi			<3% (@100% load)		
AC grid connection type			3P3W+PE/3P4W+PE		
Input Data (AC/GEN)					
Nominal AC voltage/range			380/400/415V, -15%~+10%		
Nominal AC grid frequency/range			50/60Hz, 45-55Hz/55-65Hz		
AC grid connection type			3P3W+PE/3P4W+PE		
Rated input power	63kW	75kW	85kW	100kW	125kW
Max. input current			250A		
Battery Data (DC)					
Continuous charging and discharging power	63kW	75kW	85kW	100kW	125kW
Battery voltage range			180-1000V(<580V&>900V derating)		
Max charging and discharging current			200A		
BMS communication			RS485/CAN		
Backup Power (AC)					
Rated AC output power	63kW	75kW	85kW	100kW	125kW
Max. AC apparent power	69.3kVA	82.5kVA	93.5kVA	110kVA	137.5kVA
Nominal AC voltage			220/230/240V(L-N), 380/400/415V(L-L)		
Nominal AC output frequency			50/60Hz		
Load connection			3P3W+PE/3P4W+PE		
Max. output current	105A	125A	141.7A	166.7A	208.3A
THDv			<3% (Linear load)		
Load unbalance			100% three-phase unbalanced		
Overload capacity			≤110%: Continues; 160%: 10s		
On/Off grid transfer time			≤10ms		
Efficiency					
Max. efficiency			98.5%		
Protection Devices					
DC 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			Yes		
General					
Dimensions (W/H/D)			1260/665/428mm		
Weight			160kg		
Operating temperature range			-30℃~60℃, >50℃ derating		
Relative humidity			0~100%		
Altitude			≤4000m		
Topology			Transformerless		
Cooling			Smart air cooling		
Enclosure			IP66		
Display			OLED+LED/WIFI+APP		
Interfaces: RS485/CAN			Yes		
Interfaces: WIFI/4G/LAN			Opt		
Warranty (5/10 years)			Yes/Opt		

Battery System

AXE 80-261H-2HS-S1



- Easy installation & Flexible deployment
- Stackable module design battery packs, support 80~261kWh flexible power expansion
- High usable energy with 100% depth of discharge
- Supports up to 4 battery cabinets in parallel (DC side), flexible expansion of system scale
- User-friendly LED screen for monitoring & maintenance

Datasheet	AXE 80-261H-2HS-S1
Battery Module	
Battery Pack Model	AXE 20H-2H-B1
Nominal energy	20kWh
Nominal voltage	64V
Operating voltage range	58~71V
Nominal capacity	314Ah
Rated charging/discharging current	157A
Max. charging/discharging current	200A
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)
Cycling Life	25±2℃, 0.5C, EOL 70%≥8000
Dimension (W/H/D)	450/230/970mm
Battery module weight	≤155kg
Fire protection	Pack level aerosol (optional)
Control Module	
Control module	AXE 1000200-C1
Max. current	200A
Dimension(W/H/D)	450/230/970mm
Weight	≤35kg
Communication port	CAN/RS485/USB
Display&Interaction	LED Screen
System in Cluster	
Number of modules in series	4~13
Max. parallel unit amount	4 clusters ≈ 1.04MWh
Rated charging/discharging current	157A
Rated charging/discharging rate	0.5C
IP protection	IP20
Installation	Floor Mount, Indoors
Operating temperature	-20℃ - 55℃
Relative humidity	5%~95%
Thermal management	Smart air-cooling + Heating film (optional)
Noise emission	≤65dB
Max. Operation Altitude	≤3000m
UN38.3, IEC62619, IEC60730, REACH, IEC62477-1, UKCA, CE	

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
- Supports up to 4 battery cabinets in parallel (DC side), flexible expansion of system scale
- IP55-rated cabinet for reliable outdoor operation
- Cell-level monitoring and diagnostics through the intelligent energy management cloud platform
- Ultimate safety featuring with aerosol fire suppression system and UL9540A certification



GROWATT · PRODUCT

Datasheet	ACE 261H-2H
System Parameter	
Energy energy	261.2kWh
Usable energy	248.1kWh
Max. output power*1	130kW
Nominal voltage	832V
Operating voltage range	728-936V
Nominal capacity	314Ah
Charging/discharging rate	≤0.5C
Depth of discharge	95%
Max. parallel unit amount	4
Control Module	
Control module	PDU-E15-C250-406W-E-S
Dimension(W/H/D)	480/180/649.2mm
Weight	≤25kg
Communication port	CAN
Battery Module	
Battery module	PL1P52S052B2
Battery type	Cobalt Free Lithium Iron Phosphate (LFP)
Battery module energy	52.24kWh
Dimension (W/H/D)	1127/240/800mm
Battery module weight	≤335±5kg
Number of modules in series	5
General Parameter	
Dimension(W/H/D)	1000/1300/2200mm
Weight	≤2400kg
Installation*2	Floor Mount
IP protection	IP55
Cooling	Liquid Cooling
Display&Interaction	Status Indicator Light
Warranty	5 years (opt. 10 years)
Environment Adaptation	
Operating temperature	-25°C - 55°C (>45°C derating)
Storage temperature	-20°C - 35°C, <12 months 35°C - 45°C, <6 months 45°C - 55°C, <3 months 20%≤SOC≤90%
Relative humidity	5%~95%
Max. Operation Altitude	3000m (>2000m derating)
UN38.3, UN3480, IEC61000, IEC62619, IEC60730, IEC 62933, REACH, IEC62477-1, UL9540A	

*1 Depending on the max. battery charge/discharge power of the inverter.
*2 For ground installation, a base is required. The overall dimension including the base is W/H/D=1200/2350/1400mm.

All-In-One Energy Storage System

RISE 261H-XH



- All-in-one highly integrated design
- 10 MPPT input, 2.0 DC/AC ratio
- Cell temperature difference $\leq 3\text{ }^{\circ}\text{C}$
- Fast on-grid / off-grid switching $\leq 10\text{ ms}$
- 100% unbalanced load when backup
- 160% rated AC overload capacity
- Fully pre-assembled, plug-and-play
- Scalable up to 1.25MW/2.61MWh
- Muti-level fire protection

GROWATT · PRODUCT

Datasheet	RISE 261H-5H 50kW&261kWh		RISE 261H-4H 63kW&261kWh		RISE 261H-3H 85kW&261kWh		RISE 261H-2H 125kW&261kWh	
Battery Data (DC)								
Cell Type						LFP 3.2V/314Ah		
Battery module						52.24kWh/1P52S		
Battery system						261kWh/1P260S		
Battery voltage/range						832V(728~936V)		
Charge/Discharge Rate						≤0.5P		
Depth of discharge (DOD)						95%		
Input Data (PV)								
Max. recommended PV power	100kW		126kW		170kW		250kW	
Start voltage						195V		
Max. input voltage						1100V		
Max. open circuit voltage of PV						1000V		
MPPT voltage range						180V~1000V		
Max. input current per MPP tracker						42A		
Max. short-circuit current per MPP tracker						50A		
No. of PV strings per MPP tracker						2		
No. of MPP trackers						10		
Input Data AC								
Nominal AC voltage/range						380/400V, -15%~+10%		
Nominal AC grid frequency/range						50/60Hz,45~55Hz/55~65Hz		
AC grid connection type						3P4W+PE		
Rated input power	50kW		63kW		85kW		125kW	
Max. input current						250A		
Output Data AC (On-grid)								
AC nominal power	50kW		63kW		85kW		125kW	
Max. AC apparent power	55kVA		69.3kVA		93.5kVA		137.5kVA	
Nominal AC voltage/range						380/400V, -15%~+10%		
Nominal AC grid frequency/range						50/60Hz,45~55Hz/55~65Hz		
Max. output current	83.3A		105A		141.7A		208.3A	
Adjustable power factor						-1...+1		
THDi						<3% (@100% load)		
AC grid connection type						3P4W+PE		
Output Data AC (Off-grid)								
Rated AC output power	50kW		63kW		85kW		125kW	
Max. AC apparent power	55kVA		69.3kVA		93.5kVA		137.5kVA	
Rated AC output voltage						220V/230V(L-N), 380V/400V(L-L)		
Nominal AC output frequency						50/60 Hz		
Load connection						3P4W+PE		
Max. output current	83.3A		105A		141.7A		208.3A	
THDv						<3% (Linear load)		
Load unbalance						100% three-phase unbalanced		
Overload capacity						≤110%: Continues; 160% :10s		
On/off grid transfer time						≤10ms		
GEN Port Data								
Rated voltage						380/400V		
Rated frequency						50/60Hz		
Connection type						3P4W+PE		
Rated input power(GEN/AC couple)	50kW		63kW		85kW		125kW	
Rated input power(Smart load)	50kW		63kW		85kW		125kW	
General								
Dimensions (W/H/D)						1400/2150/1300mm		
Weight						2.6T		
Operating temperature range						-25 °C~55 °C		
Relative humidity						0~95%, no condensation		
Altitude						≤3000m		
Cooling						Smart air cooling for PCS&Liquid cooling for battery		
IP degree						IP 55		
Fire protection system						Aerosol		
Interfaces						RS485/USB		
Warranty (5/10 years)						Opt		
EN 62920-2017, IEC/EN 62477-1, IEC/EN 62109-1/2, IEC 62116, IEC 61000, IEC 61727, IEC 61683, IEC 60068 G99/100, EN 50549-1/2/10, NRS 097-2-1, CEI-0-16/21, UNE 217001/UNE 217002, NTS 631 Type A&B UN38.3, UN3480, IEC61000, IEC62619, IEC60730, IEC 62933, REACH, IEC62477-1, UL9540A								

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	

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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-X Series



- 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-R
Communication	
RS485	Yes
Ethernet	Yes
PLC	No
Ring network switch	No
Max. inverter number	6PCS
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	

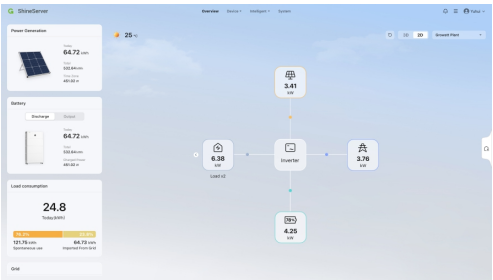
CT Data*1				
	250A	600A	1200A	2000A
Max. current (CT detection)				
Max. input current (CT second side)	5A			
Accuracy (@rated CT current)	0.5S			

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

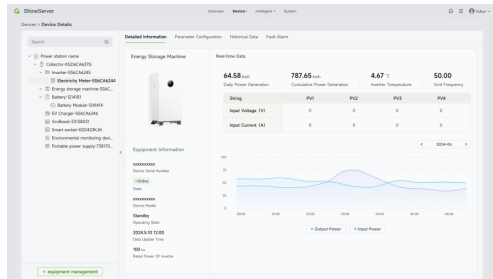
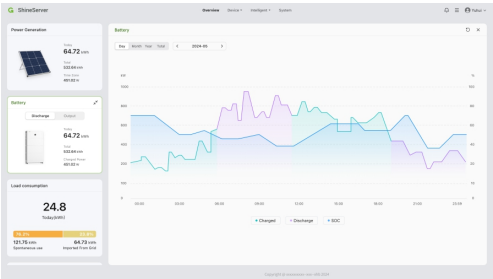


Take full command of your PV and energy storage systems with ShineServer, the all-in-one cloud-based platform designed to simplify and elevate your energy management experience.



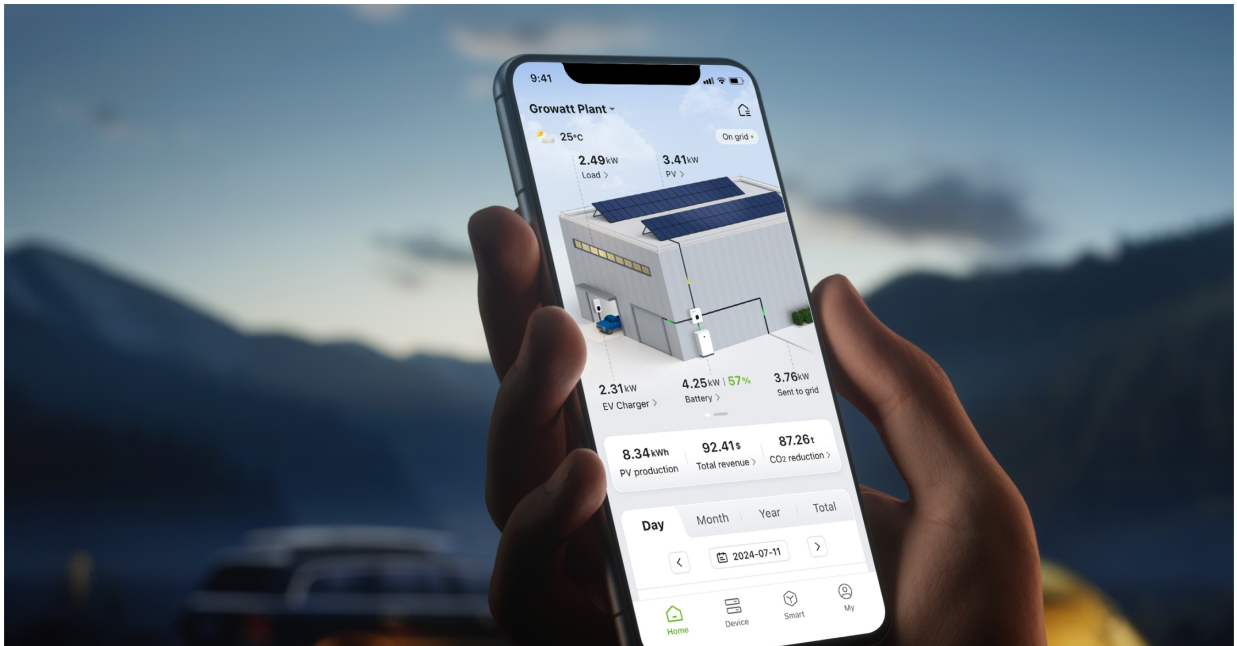
Dynamic, real-time energy flow display provides a clear and intuitive overview of your system’s performance. See how energy is generated, stored, and consumed at a glance, empowering you to make informed decisions effortlessly.

Comprehensive statistics such as energy input, output, efficiency, and historical trends are meticulously presented. ShineServer delivers the insights you need to maximize your system’s potential.

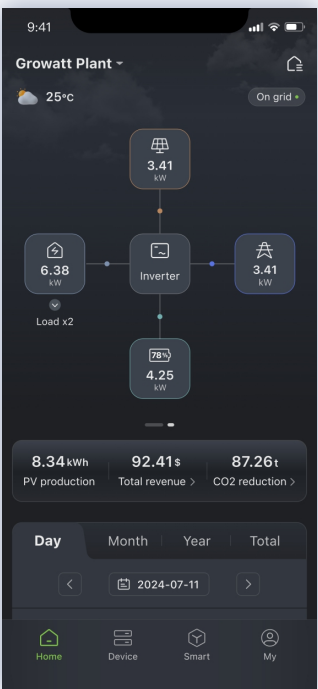
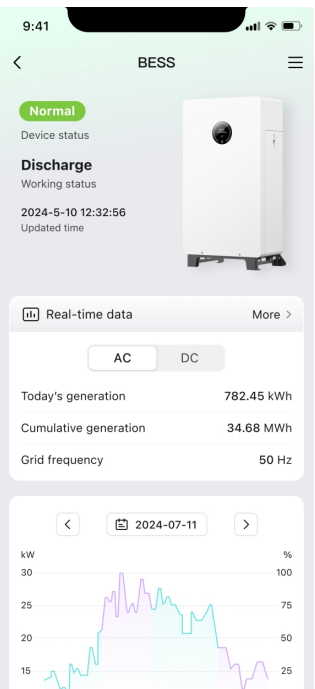
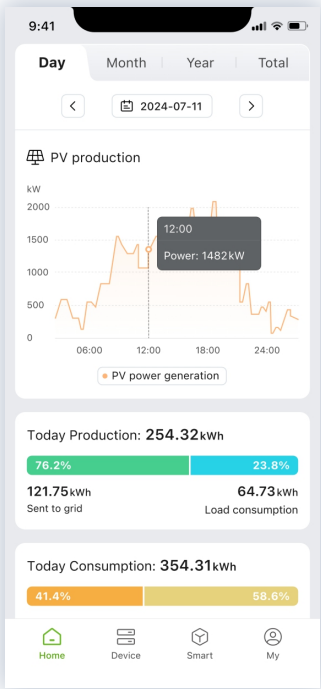


Explore detailed device parameters, customize configurations, and fine-tune settings to ensure your system operates at peak efficiency. ShineServer provides the tools to tailor your energy system to your unique needs.

ShinePhone APP



Take control of your energy future with Shinephone – the ultimate app for monitoring your PV and storage systems. Whether you're at home or on the go, Shinephone puts real-time data, performance insights, and system alerts right at your fingertips.



Optimize your energy production, track savings, and ensure your system runs at peak efficiency. With intuitive design and powerful features, Shinephone makes managing renewable energy effortless. Go green, stay connected download Shinephone today and shine brighter with every watt!

Myanmar Hybrid ESS

► WIT 50K-XHU + 2*AXE 50.0H-1HR-E1 ► Myanmar



UKRAINE HYBRID ESS

► WIT 100K-HU + APX 200.7H-S1 ► Ukraine



Myanmar All-in-one HYBRID ESS

► WIT 50K-XHU + AXE 60.0H-1HT-S1 ► Myanmar



SIERRA LEON HYBRID ESS

► WIT 100K-HU + APX 200.7H-S1 ► Sierra Leon



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

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



NIGERIA OFF-GRID HYBRID ESS

► WIT 100K-HU + ACE 209H-2H ► Off-grid parallel system ► Nigeria



CARIBBEAN SEA MICRO-GRID SYSTEM

► WIT 55K-HU-US L2+APX 100.3H-S1-US ► Caribbean Sea



INDUSTRIAL PARK TOU PROFIT STATION

► Shandong Province, China ► 5 sets of ENSE 209KWH-2H1
► 500kW/1MWh

► Henan Province, China ► 2 sets of ENSE 209KWH-2H1
► 200kW/400kWh



► Zhejiang Province, China ► 2 sets of ENSE 209KWH-2H1
► 200kW/400kWh



► Guangdong Province, China
► 5 sets of ENSE 209KWH-2H1 ► 500kW/1MWh



Myanmar Third-party Battery SYSTEM

► WIT 50K-XHU + Third-party Battery System ► Myanmar



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



► Guangdong Province, China
► 5 sets of ENSE 209KWH-2H1 ► 500kW/1MWh

