



PRODUCT BROCHURE



☎ 400-8302-600

✉ info@enecellpower.com
sales@enecellpower.com

🌐 www.enecellpower.com

📍 518054

24B, Microsoft Comtech Building, No.55, High-tech South 9th Road, High-tech District,
Yuehai Street, Nanshan District, Shenzhen, China.

COMPANY PROFILE

Company Profile

Enecell started as a new business unit by Sunfly Holding Group (Stock Code: 300423) which was established in 2010.

With the support of Sunfly, Enecell had grown into a independent company specialize in the field of EV charging, residential and commercial energy storage.

Enecell is committed to sustainability, and we strive to create products that are eco-friendly. We are aiming to be an important driving force to push green living, energy independence and reduce carbon emissions.

Our R&D

Enecell constantly find innovative solutions that make clean energy more accessible and affordable for everyone.

Our team of engineers, scientists, and researchers who have been working in the field for many years work tirelessly to develop new technologies to improve efficiency, reliability, and cost-effectiveness of the energy storage system available on the market today.

Our Advantage



Manufacturing

The use of automated machines significantly reduces our production costs, and minimizes human errors, ensuring output consistency and quality. In the mean time, our flexible manufacturing systems are focused on allowing for changes. It is crucial for any manufacturing which need to adjust production to meet our customer demand as close to real-time as possible.

10000+m²

Basic manufacturing area

3000+m²

Fully automatic production area



Quality Management

Enecell has successfully acquired the recognition of ISO9001, ISO14001, ISO45001.

We strives to ensure all associated employees work toward the common goals of improving product or service quality, as well as improving the procedures that are in place for production.

And customer input is highly valued, as it allows us to better understand the needs and requirements in the manufacturing process.

In addition, continuous improvement helps us to adapt to changing market expectations and allows for greater adaptability to different products, markets, customers, or regions.

PRODUCT PROFILE

01 ENERGY STORAGE (P1-P22)

ENECELL RESIDENTIAL ALL-IN-ONE ESS

· ENE-A1-ESS SINGLE P HASE

ENECELL COMMERCIAL ALL-IN-ONE ESS

· ENE-A3-ESS THREE PHASE

ENECELL HYBRID INVERTER

· ENE-H1-INVERTER SINGLE PHASE

· ENE-H3-INVERTER THREE PHASE

· ENE-HSP-INVERTER-US SPLIT PHASE

· ENE-HSP-INVERTER-US SPLIT PHASE

ENECELL SOLAR CHARGER

· ENE SOLAR CHARGER

· ENE SOLAR CHARGER US STANDARD

ENECELL BATTERY SYSTEM

· ENECELL BATTERY STORAGE SYSTEM

· ENECELL BATTERY MODULE



CHARGING PILE (23P-28P) 02

DC ELECTRIC VEHICLE CHARGING STATION

FAST DC ELECTRIC VEHICLE CHARGING STATION ENE160

AC ELECTRIC VEHICLE CHARGER

AC ELECTRIC CAR CHARGER ENE G712

AC ELECTRIC CAR CHARGER ENE R712

AC ELECTRIC CAR CHARGER ENE S7

SHINGLED MODULES (P29-P34) 03

SHINGLED MONOFACIAL MODULE

· ENE-425W-4SCF

· ENE-430W-4SS/SCB

· ENE-445W-6SS/SCF/SCB

· ENE-560W-58SS

SHINGLED BIFACIAL MODULE

· ENE-555W-58SDS

SMART ENERGY MANAGEMENT SYSTEM (P35-P36) 04

CASES STUDY (P37-P38) 05

ENERGY STORAGE

Based on different capacity range, Enecell has developed effective and reliable approaches for residential and commercial energy storage products that enables the renewable energy produced from power system to be stored and then used when needed.

· ENECCELL ALL-IN-ONE ESS

· ENECCELL HYBRID INVERTER

· ENECCELL SOLAR CHARGER

· ENECCELL BATTERY CABINET 51.2

ENECCELL

ENECELL RESIDENTIAL ALL-IN-ONE ESS



Features

·Safety

LFP (Lithium Iron Phosphate) the highest safety

·Installation

Simple buckle fixing minimize the installation time and cost

·Up to 4 Series or Parallel

Flexible to increase voltage capacity without any other equipment or settings

·Cycle Life

> 6000 Cycles

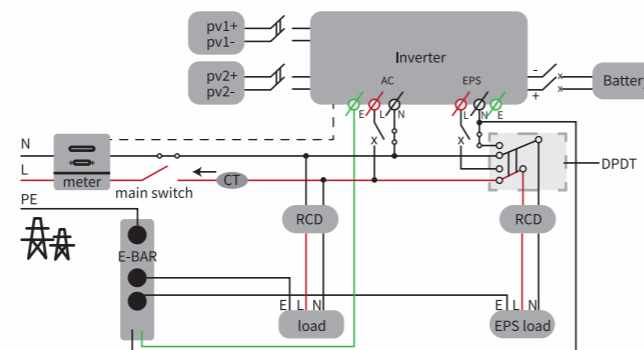
·WiFi & APP

Integrated WiFi Modem OTA online upgrade convenient after-sales service

·High-precision SOC

Accurate sampling of voltage and current SOC mathematic more accurate and never jump

Block Diagram



24B, Microsoft Comtech Building, No. 55, High-tech South 9th Road, High-tech District, Yuehai Street, Nanshan District, Shenzhen

PARAMETER

	ENE-A1-3.0-10KL	ENE-A1-3.6-10KL	ENE-A1-4.0-10KL	ENE-A1-4.6-10KL	ENE-A1-5.0-10KL
	ENE-A1-3.0-20KL	ENE-A1-3.6-20KL	ENE-A1-4.0-20KL	ENE-A1-4.6-20KL	ENE-A1-5.0-20KL
DC INPUT(Battery and PV)					
Max. PV input power (PV1+PV2)	4600Wp	4600Wp	6000Wp	6000Wp	7000Wp
Max. PV input voltage	550V	550V	550V	550V	550V
Start input voltage	125V	125V	125V	125V	125V
Normal DC operating voltage	360V	360V	360V	360V	360V
MPPT voltage range	125V-500V	125V-500V	125V-500V	125V-500V	125V-500V
No. of MPPT trackers / Strings per MPP tracker	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)
Max. input current (input PV1 / input PV2)	14/14A	14/14A	14/14A	14/14A	14/14A
AC INPUT & OUTPUT					
Nominal AC output power	3000W	3680W	4000W	4600W	5000W
Max. AC output apparent power	5000VA	5000VA	5000VA	5000VA	5000VA
Max. AC output current	13A	16A	17.4A	20A	21.7A
Nominal AC voltage/ range	230V(176V-270V)				
Nominal grid frequency	50/60Hz				
Displacement power factor	0.8 leading—0.8 lagging				
THDi (rated power)	<3%				
BATTERY DATA					
Battery type	Lithium battery				
Battery voltage range	48-56V				
Recommended battery voltage	51.2V				
Cut Off Voltage	48V				
Max. charging Voltage	56V				
Max. Protect Voltage	58V				
Max. charge/discharge current	95A/62.5A	95/76.6	95/83.3	95/95.8	95/104.2
Communication interfaces	CAN / RS485 / WIFI / LAN / DRM				
Reverse connect protection	Yes				
Battery Capacity	10.24kWh / 20.48kWh				
EPS OUTPUT (WITH BATTERY)					
Nominal rated power	3000W	3680W	4000W	4600W	5000W
Max. continuous current	13A	16A	17.4A	20A	21.7A
Nominal voltage; Frequency	230V:50 / 60Hz				
Switch time	<20ms				
Parallel operation	Yes				
Overload capability	110%,60S / 120%,30S / 150%,10S				
SYSTEM DATA					
Max. efficiency	97.6%				
Euro. efficiency	97%				
Battery charge / discharge efficiency	95%				
Degree of protection	IP65				
Operating temperature range	-20°C~+60°C				
Max. operation altitude	2000m(>2000m Derating)				
Relative humidity	5~85%				
Typical noise emission	<40dB				
Storage temperature	-25°C~+45°C				
Dimensions(WxHxD)	540mm*1030mm*250mm/540mm*1435mm*250mm				
Net weight	110kg/200kg				
Cooling concept	Nature cooling				
Communication interfaces	CAN / RS485 / Wifi / LAN / DRM				
Internal consumption (night)	<27W for standby, <27W for idle				
Isolation transformer	No				
STANDARD					
Safety	EN/IEC62109-1-2				
EMC	EN61000-6-1/2/3/4; EN61000-3-1/1/2				
Certification	IEC61727/VDE4105, CEI 0-21, OVE Directive R 25:2020, EN50549				

*Information may be subject to modify without notice.

info@enecellpower.com

www.enecellpower.com



ENECELL COMMERCIAL ALL-IN-ONE ESS



Features

·Excellent integrated

· System productization integrates energy storage batteries, PCS and distribution, temperature control and fire protection, water-immersion door magnets, and monitoring communications, comprehensively controlling the system's operating status and risk.

·Flexible Parallel

· With the patented technology function of virtual synchronous machine can realize the free paralleling of multiple machines without long-distance communication lines, and the seamless switching function of off-network;

·High-level protection

· The patented outdoor cabinet protection design optimizes the heat dissipation air duct and protects against sand, dust and rain; the front and rear sides open for maintenance, which facilitates the arrangement of multiple systems side by side on site and reduces the floor space;

·Diversified functions

· Standardized structural design, menu-based function configuration, photovoltaic charging module, on-off-grid switching module, power frequency transformer and other components can be selected for micro-grid and other scenarios, integrated optical storage integrated system cabinet

·Compact Design

· By using door-mounted embedded integrated air conditioning, the cabinet space is not occupied, which increases the usable space of the cabinet. The top structure is also more intact and has better waterproof effects.

·Intelligent management

· The local control panel can achieve diversified functions such as system operation monitoring, energy management strategy formulation, and remote equipment upgrading.

24B, Microsoft Comtech Building, No. 55, High-tech South 9th Road, High-tech District, Yuehai Street, Nanshan District, Shenzhen

ENE-A3-ESS THREE PHASE

92.16kWh / 200kWh / 215kWh

info@enecellpower.com

www.enecellpower.com

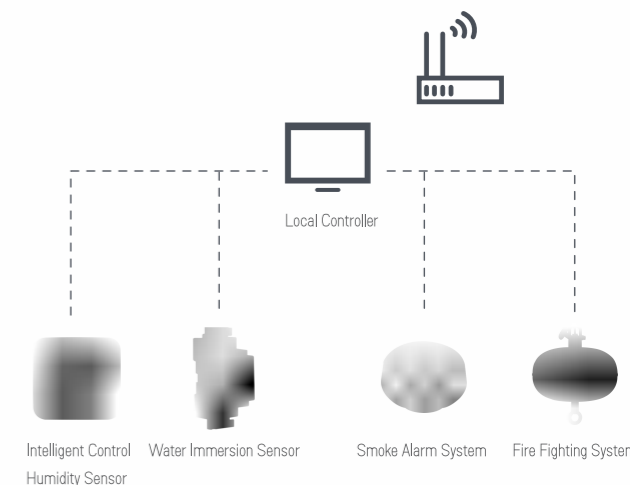
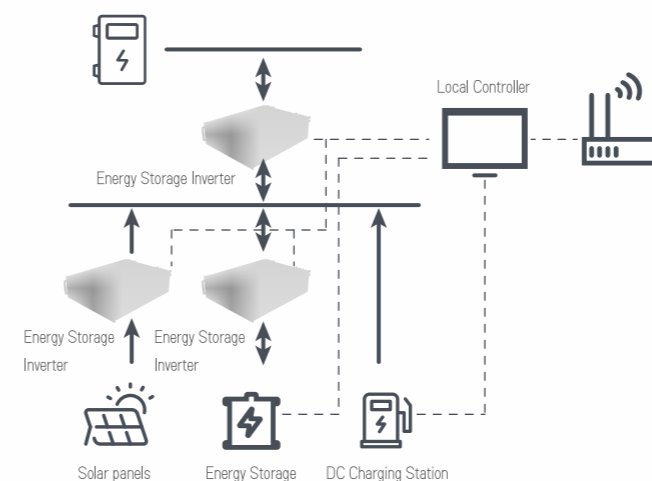


PARAMETER

	50kWh/92.16kWh	100kWh/200kWh	100kWh/215kWh
Battery parameters			
Rated Battery system capacity	92.16kWh	200kWh	215kWh
Rated Battery system voltage	768V	716.8V	768V
Battery type	Lithium Iron Phosphate Battery (LFP)	Lithium Iron Phosphate Battery (LFP)	Lithium Iron Phosphate Battery (LFP)
Battery cell capacity	120Ah	280Ah	280Ah
Serial and parallel connection of battery modules	1P*14S*16S	1P*14S*16S	1P*20S*12S
AC parameters			
Rated AC power	50kW	100kW	100kW
Rated AC current	72A	144A	144A
Rated AC voltage		400V,3P+N+PE,50Hz	
Total Harmonic Distortion (THD) of current		<3%(Rated Power)	
Adjustable range of power factor		-1 Leading ~ +1 Lagging	
General parameters			
Protection level		IP54	
Isolation method		Non-Isolated (Optional Transformer)	
Operating temperature		-25~60°C. (Rated power > 45°C)	
Altitude		3000m (Rated power>3000m)	
Communication interface		RS485/CAN2.0/Ethernet /Dry Contact	
Dimensions (W*D*H)	1850*1000*2300mm	1850*1000*2300mm	1800*1200*2300mm
Weight (including battery)	1750kg	2350kg	2400kg

*Note: The above models are typical configurations. Photovoltaic charging modules, off-grid switching modes, power frequency transformers, and integrated photovoltaic energy storage system cabinets can also be selected for micro-grid and other scenarios.

BLOCK DIAGRAM



ENECELL HYBRID INVERTER



Features

·Friendly & flexible

- Support multi-machine parallel connection;
- Compatible with lead-acid or lithium-ion batteries or other battery access;

·Grace

- Fashion appearance, light weight, smart operation;
- Natural cooling, low noise;
- IP65, wall mounted design, saving space;

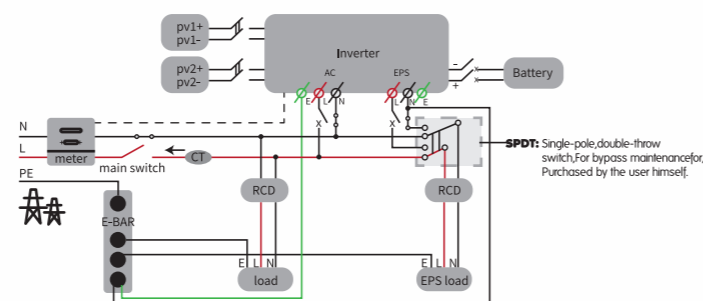
·Reliable

- Compatible anti counter flow function;
- Battery reverse connect protection;

·Advanced

- Intelligent energy management system for home;
- Power dispatching and demand side response management mode;
- Distributed virtual power station management mode;

Block Diagram (220V applies to most countries)



24B, Microsoft Comtech Building, No. 55, High-tech South 9th Road, High-tech District, Yuehai Street, Nanshan District, Shenzhen

PARAMETER

	ENE-H1-3.0KL	ENE-H1-3.6KL	ENE-H1-4.0KL	ENE-H1-4.6KL	ENE-H1-5.0KL	ENE-H1-6.0KL	ENE-H1-8.0KL
DC INPUT(Battery and PV)							
Max. PV input power (PV1+PV2)	4600Wp	4600Wp	6000Wp	6000Wp	7000Wp	7000Wp	12000Wp
Max. PV input voltage	550V	550V	550V	550V	550V	550V	550V
Start input voltage	120V	120V	120V	120V	120V	120V	120V
Nominal input voltage	360V	360V	360V	360V	360V	360	360
MPPT voltage range	125V-500V	125V-500V	125V-500V	125V-500V	125V-500V	125V-500V	125V-500V
No. of MPPT trackers / Strings per MPP tracker	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(1/1)	2(2/1)
Max. input current (input PV1 / input PV2)	14/14A	14/14A	14/14A	14/14A	14/14A	14/14A	30/15A
AC INPUT & OUTPUT							
Nominal AC output power	3000W	3680W	4000W	4600W	5000W	6000W	8000W
Max. AC output apparent power	5000VA	5000VA	5000VA	5000VA	5000VA	6000VA	8000VA
Max. AC output current	13A	16A	17.4A	20A	21.7A	26A	35A
Nominal AC voltage/ range	230V(176V-270V)						
Nominal grid frequency	50/60Hz						
Displacement power factor	0.8 leading—0.8 lagging						
THDi (rated power)	<3%						
AC output topology	L+N+PE						
BATTERY DATA							
Battery type	Lithium / Lead-acid battery						
Battery voltage range	40-58V						
Max. charging Voltage	58V						
Max. charge/discharge current	95A/62.5A	95/76.6	95/83.3	95/95.8	95/104.2	95/110	160/160
Communication interfaces	CAN						
EPS OUTPUT (WITH BATTERY)							
Nominal rated power	3000W	3680W	4000W	4600W	5000W	6000W	8000W
Max. continuous current	13A	16A	17.4A	20A	21.7A	26A	35A
Nominal voltage; Frequency	230V;50/60Hz						
Switch time	<20ms						
THDu	<2%						
Overload capability	110%,60S/ 120%,30S/ 150%,10S						
SYSTEM DATA							
DC Max. efficiency	96.5%						
Euro. efficiency	98%						
Battery charge / discharge efficiency	97%						
Degree of protection	IP65						
Operating temperature range	-25°C~+60°C (>+45°C Derating)						
Max. operation altitude	2,000m (>2,000 Derating)						
Relative humidity	0~95% (non-condensing)						
Typical noise emission	<35dB						
Dimensions (W×D×H)	451mm*212mm*474mm						
Net weight	18kg						
Cooling concept	Nature cooling						
Communication interfaces	RS485/CAN/DRM						
Internal consumption (night)	< 3W						
Isolation transformer	No						
STANDARD							
Safety	IEC/EN62109-1/-2, IEC/EN62477-1						
EMC	IEC/EN 61000-6-1, IEC/EN 61000-6-3						
Certification	IEC61727,G98/G99,EN50549,NRS 097-2-1:2017						

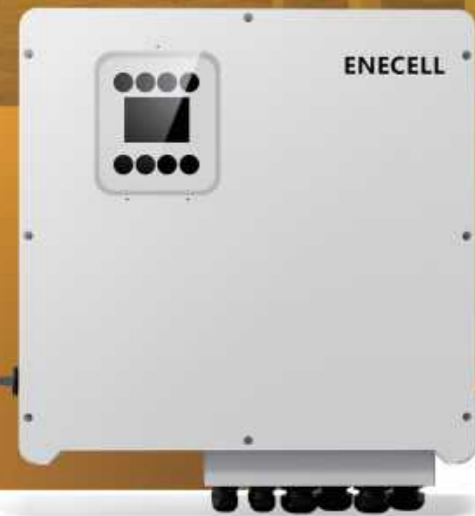
*Information may be subject to modify without notice.

info@enecellpower.com

www.enecellpower.com



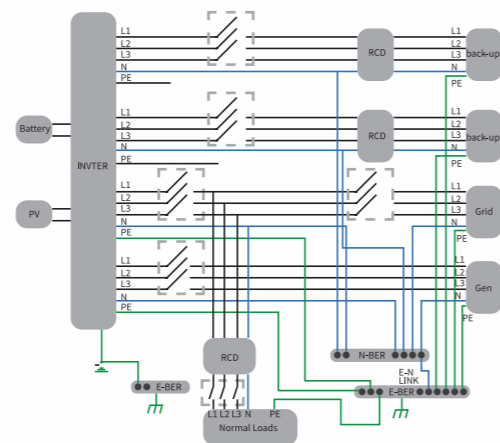
ENECELL HYBRID INVERTER



Features

- Compatible with lead-acid and lithium-ion batteries
- Battery reverse connection protection, anti-power control function
- Support diesel generator input source
- IP65 protection, low noise < 35dB
- Input power source priority can be set by users
- Support full power discharge, automatic management of battery charge and discharge

Block Diagram



ENE-H3-INVERTER (THREE PHASE)

8.0kW / 10.0kW / 12.0kW

info@enecellpower.com

www.enecellpower.com



24B, Microsoft Comtech Building, No. 55, High-tech South 9th Road, High-tech District, Yuehai Street, Nanshan District, Shenzhen

PARAMETER

	ENE-H3-8.0KH	ENE-H3-10.0KH	ENE-H3-12.0KH
DC INPUT (Battery and PV)			
Max. PV input power	10400Wp	13000Wp	15600Wp
Max. PV input voltage	1000V	1000V	1000V
Start input voltage	200V	200V	200V
Nominal input voltage	600V	600V	600V
MPPT voltage range	180V~850V	180V~850V	180V~850V
No. of MPPT trackers / Strings per MPP tracker	2(1/1)	2(1/1)	2(1/1)
Max.input current of single MPPT	12.5A	12.5A	12.5A
AC INPUT & OUTPUT			
Nominal AC output power	8800W	11000W	13200W
Max. AC output apparent power	8800VA	11000VA	13200VA
Max. AC output current	12.7A	15.9A	19.1A
Nominal AC voltage/ range		400V(360V~440V)	
Nominal grid frequency		50/60Hz	
Displacement power factor		0.8 leading—0.8 lagging	
THDi (rated power)		<3%	
AC output topology		3W+N+PE	
BATTERY DATA			
Battery type		Lithium / Lead-acid battery	
Battery voltage range		125~600V	
Max. charging Voltage		600V	
Full battery voltage	210V	270V	250V
Max. charge/discharge current	40A	40A	50A
Communication interfaces			
EPS OUTPUT (WITH BATTERY)			
Nominal rated power	8800W	11000W	13200W
Max. continous current	12.7A	15.9A	19.1A
Nominal voltage; Frequency		400V;50/60Hz	
Switch time		<20ms	
THDu		<2%	
Overload capability		110%,30S/ 120%,10S/ 150%,0.02S	
SYSTEM DATA			
DC Max. efficiency	97.90%	98.20%	98.20%
Euro. efficiency	97.20%	97.50%	97.50%
Battery charge / discharge efficiency	96.60%	96.70%	96.80%
Degree of protection		IP65	
Operating temperature range		-25°C~+60°C (>+45°C Derating)	
Max. operation altitude		2,000m (>2,000 Derating)	
Relative humidity		0~95% (non-condensing)	
Typical noise emission		<35dB	
Dimensions (W×D×H)		530mm*200mm*600mm	
Net weight		29kg	
Cooling concept		Nature cooling	
Communication interfaces		RS485/CAN/DRM	
Internal consumption (night)		< 3W	
Isolation transformer		No	
STANDARD			
Safety		IEC/EN62109-1/-2, IEC/EN62477-1	
EMC		IEC/EN 61000-6-1, IEC/EN 61000-6-3	
Certification		EN50549-1, VDE4105/0124, G99, NRS097-2-1:2017	

*Information may be subject to modify without notice.

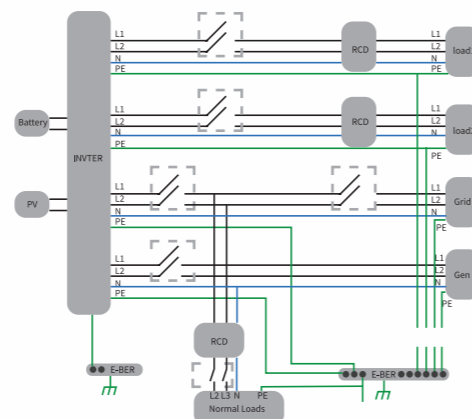
ENECELL HYBRID INVERTER



Features

- Support Parallel available
- Bypass current capacity up to 100A
- Support 100% unbalanced load capacity
- UL certification

Block Diagram



ENE-HSP-INVERTER(SPLIT PHASE)

(US STANDARD)

5.0kW / 6.0kW / 8.0kW / 10.0kW

info@enecellpower.com

www.enecellpower.com



24B, Microsoft Comtech Building, No. 55, High-tech South 9th Road, High-tech District, Yuehai Street, Nanshan District, Shenzhen

PARAMETER

	ENE-HSP-5.0KL-US	ENE-HSP-6.0KL-US	ENE-HSP-8.0KL-US	ENE-HSP-10.0KL-US
DC INPUT(Battery and PV)				
Max. PV input power	7500Wp	9000Wp	12000Wp	13000Wp
Max. PV input voltage	500V	500V	500V	500V
Start input voltage	150V	150V	150V	150V
MPPT voltage range	120V~500V	120V~500V	120V~500V	120V~500V
MPPT tracker/strings	4/1	4/1	4/1	4/1
Max.input current of single MPPT	12A	12A	12A	12A
AC INPUT & OUTPUT				
Nominal AC output power	5000W	6000W	8000W	10000W
Max. AC output apparent power	5000VA	6000VA	8000VA	10000VA
Max. AC output current	24A	28.8A	38.3A	47.8A
Nominal AC voltage/ range	120/240V(split phase), 208V(2/3 phase),230V (single phase)			
Nominal grid frequency	50/60Hz			
Displacement power factor	0.8 leading—0.8 lagging			
THDi (rated power)	<3%			
AC output topology	Split phase, 2/3 phase, single phase			
BATTERY DATA				
Battery type	Lithium / Lead-acid battery			
Battery voltage range	~40~58V			
Max. charging Voltage	58V			
Max. charge/discharge current	120/120A	135/135A	190/190A	210/210A
Communication interfaces	CAN/RS485			
EPS OUTPUT (WITH BATTERY)				
Nominal rated power	5000W	6000W	8000W	10000W
Max. continous current	24A	28.8A	38.3A	47.8A
Nominal output voltage	120/240V (split phase), 208V (2/3 phase),230V (single phase)			
Nominal frequency	50/60Hz			
Switch time	<20ms			
THDu	<2%			
Overload capability	125%,60S/ 150%,1S			
SYSTEM DATA				
DC Max. efficiency	98.2%			
Euro/North american efficiency	97.2%			
Degree of protection	IP65			
Operating temperature range	-25°C~+60°C (>+45°C Derating)			
Max. operation altitude	2,000m(>2,000 Derating)			
Relative humidity	0 ~95% (non-condensing)			
Typical noise emission	<25dB	<29dB	<29dB	<29dB
Dimensions (W×D×H)	430mm*220mm*710mm			
Net weight	41kg			
Cooling concept	Nature cooling			
Communication interfaces	RS485/Wifi/4G/CAN/DRM			
Standby internal consumption (night)	< 3W			
Isolation transformer	No			
STANDARD				
Safety	UL1741SA all options, UL1699B, CSA 22.2			
EMC	FCC Part 15, Class B			
Certification	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III,NRS			

*Information may be subject to modify without notice.

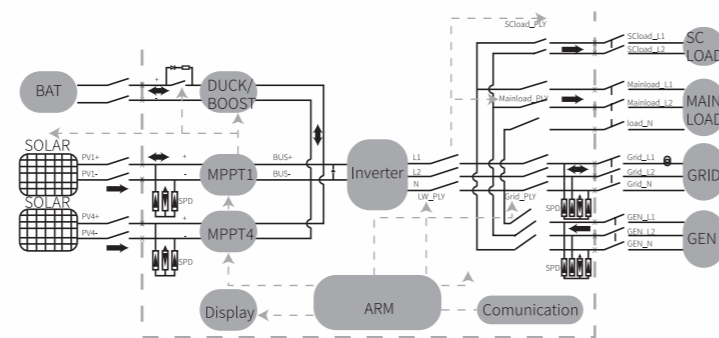
ENECELL HYBRID INVERTER



Features

- Compatible with lead-acid and lithium-ion batteries
- Battery reverse connection protection, anti-power control function
- Support diesel generator input source
- UL certification
- Input power source priority can be set by users
- Support full power discharge, automatic management of battery charge and discharge

Block Diagram



ENE-HSP-INVERTER(SPLIT PHASE)

(US STANDARD)

8.0kW/10.0kW/12.0kW/15.0kW

info@enecellpower.com

www.enecellpower.com



24B, Microsoft Comtech Building, No. 55, High-tech South 9th Road, High-tech District, Yuehai Street, Nanshan District, Shenzhen

PARAMETER

	ENE-HSP-8.0KH-US	ENE-HSP-10.0KH-US	ENE-HSP-12.0KH-US	ENE-HSP-15.0KH-US
DC INPUT(Battery and PV)				
Max. PV input power	12000Wp	14400Wp	24000Wp	28800Wp
Max. PV input voltage	600V	600V	600V	600V
Start input voltage	150V	150V	150V	150V
Nominal input voltage	384V	384V	384V	384V
MPPT voltage range	120V-550V	120V-550V	120V-550V	120V-550V
MPPT tracker/strings	4/1	4/1	4/1	4/1
Max.input current of single MPPT	13A	13A	26A	26A
AC INPUT & OUTPUT				
Nominal AC output power	8000W	10000W	12000W	15000W
Max. AC output apparent power	8000VA	10000VA	12000VA	15000VA
Max. AC output current	36.4A	45.5A	54.5A	68.2A
Max. AC input apparent power	12000VA	15000VA	18000VA	22000VA
Max. AC input current	50A	62.5A	73.3A	91.6A
Nominal AC voltage/ range	120V(102~132V)/240V(204~264V)			
Nominal grid frequency/ range	60Hz(55~65Hz)			
Displacement power factor	0.8 leading—0.8 lagging			
THDi (rated power)	<3%			
AC output topology	L1/L2/N/PE			
BATTERY DATA				
Battery type	Lithium / Lead-acid battery			
Battery voltage range	*75V~480V			
Max. charging Voltage	500V			
Max. charge/discharge current	75/75A	75/75A	75/75A	75/75A
Communication interfaces	R485,CAN			
EPS OUTPUT (WITH BATTERY)				
Nominal rated power	8000W	10000W	12000W	15000W
Max. continous current	24A	28.8A	38.3A	47.8A
Nominal output voltage	120/240V (split phase)			
Nominal frequency	60Hz			
Switch time	<10ms			
THDu	<2%			
Overload capability	125%,10min/ 150%,1min			
SYSTEM DATA				
Max.efficiency	98%			
North american efficiency	97%			
Max.MPPT efficiency	99.9%			
Battery charge / discharge efficiency	96%			
Degree of protection	IP65			
Operating temperature range	-25°C~+60°C(>+45°C Derating)			
Max. operation altitude	3,000m(>3,000 Derating)			
Relative humidity	0 ~95%(non-condensing)			
Typical noise emission	<25dB			
Dimensions (W×D×H)	660mm*810mm*220mm			
Net weight	60kg	60kg	62kg	62kg
Cooling concept	Nature cooling			
Communication interfaces	Wi-Fi,R485,CAN; GPRS, Bluetooth			
Standby internal consumption (night)	< 10W			
STANDARD				
Safety	UL1741SA all options, UL1699B, CSA 22.2			
EMC	FCC Part 15, Class B			
Certification	IEEE 1547, IEEE 2030.5, Hawaii Rule 14H, Rule 21 Phase I,II,III			

*Information may be subject to modify without notice.

ENECELL SOLAR CHARGER



Features

Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Multiple charge and discharge modes are available

Reliable

- Outputs high-quality pure sine wave AC power
- Reliable output for long periods at rated power

Safety

- 360 degrees of security from hardware to software
- With IEC,SAA,cETL,FCC certification

All in one

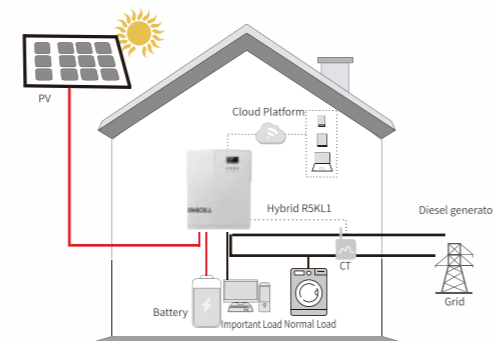
- Support for many types of batteries
- Supports Li-ion battery BMS communication

User-Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

Intelligent

- Exclusive Li-ion battery BMS dual activation
- Support for remote monitoring of operating parameters



24B, Microsoft Comtech Building, No. 55, High-tech South 9th Road, High-tech District, Yuehai Street, Nanshan District, Shenzhen

PARAMETER

	ENE-SC48-5.0KL	ENE-SC48-3.0KL	ENE-SC24-3.0KL	ENE-SC48-5.0KH	ENE-SC24-3.3KH
INVERTER OUTPUT					
Rated Output Power	5000W	3000W	3000W	5000W	3300W
Max.Peak Power	10000VA	6000VA	6000VA	10000VA	6000VA
Rated Output Voltage	230Vac (L/N/PE single phase)				
Load Capacity of Motors	4HP	2HP	2HP	4HP	2HP
Rated AC Frequency	50Hz/60Hz				
Waveform	Pure Sine Wave				
Switch Time(typical)	10 ms				
Parallel Capacity	1~6				
BATTERY					
Battery Type	Li-ion/Lead-Acid/User Defind				
Rated Battery Voltage	48Vdc	48Vdc	24Vdc	48Vdc	24Vdc
Voltage Range	40~60Vdc	40~60Vdc	20~33Vdc	40~60Vdc	20~33Vdc
Max.MPPT Charging Current	80A	60A	60A	80A	80A
Max.Mains/Generator Charging Current	60A	60A	80A	60A	80A
Max.Hybrid Charging Current	140A	120A	140A	80A	80A
PV INPUT					
Num. of MPPT Tracker	1	1	1	1	1
Max. PV Array Power	4400W	3400W	1600W	5200W	4000W
Max. Input Current	50A	40A	40A	18A	13A
Max.Voltage of Open Circuit	145V dc	145V dc	100Vdc	500V dc	500V dc
MPPT Voltage Range	60~115Vdc	60~115Vdc	30~85Vdc	120~450V dc	120~450V dc
MAINS/GENERATOR INPUT					
Input Voltage Range	UPS:172~280Vac APL: 90~280 ac				
Frequency Range	50Hz/60Hz				
Bypass Overload Current	50A	30A	30A	40A	30A
EFFICIENCY					
MPPT Tracking Efficiency	99.90%				
Max. Battery Inverter Efficiency	92.00%				
GENERAL					
Dimensions	426*322*124	378*280*103	378*280*103	426*322*124	378*280*103
Weight	10.8 kg (23.8lb)	6.2 kg (23.8lb)	6.2 kg (23.8lb)	10.9kg (23.8lb)	6.9kg (23.8lb)
Protection Degree	IP20				
Operating Temperature Range	-15°C~+55°C(5°F~55°F)				
Noise	<60dB				
Cooling Method	Internal Fan				
Warranty	1 Year				
COMMUNICATION					
Embedded Interfaces	RS485/CAN/USB/Dry contact				
External Modules (Optional)	Wi-Fi/GPRS				
CERTIFICATION					
Safety	IEC 62109, SAA	IEC 62109	IEC 62109, IEC61683	IEC 62109, SAA,IEC61683	IEC 62109, SAA
EMC	EN61000, FCC Part15 ClassB	EN61000, FCC Part15 ClassB	EN61000	EN61000, FCC Part15 ClassB	EN61000, FCC Part15 ClassB
RoHS	Yes				

*Information may be subject to modify without notice.

info@enecellpower.com

www.enecellpower.com



ENECELL SOLAR CHARGER



Features

·Efficiency

- Advanced MPPT with up to 99.9% efficiency
- Multiple charge and discharge operating modes

·Reliable

- Outputs high-quality pure sine wave AC power
- Reliable output for long periods at rated power

·Safety

- 360 degrees of security from hardware to software
- With IEC,SAA,cETL,FCC certification

·All in one

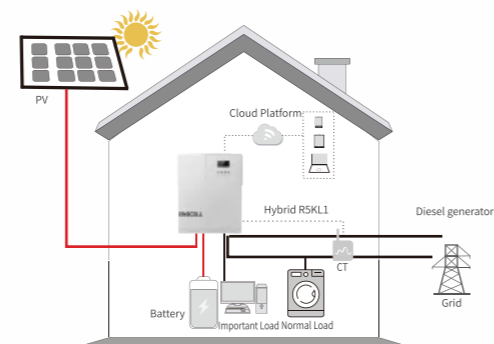
- Support for many types of batteries
- Supports Li-ion battery BMS communication

·User - Friendly

- Industrial design with a modern aesthetic look
- Easy to install and simple to use

·Intelligent

- Exclusive Li-ion battery BMS dual activation
- Support for remote monitoring of operating parameters



24B, Microsoft Comtech Building, No. 55, High-tech South 9th Road , High-tech District , Yuehai Street , Nanshan District , Shenzhen

PARAMETER

	ENE-SC48-5.0KL-US	ENE-SC48-3.5KH-US	ENE-SC48-5.0KH-US
INVERTER OUTPUT			
Rated Output Power	3500W	3500W	5000W
Max.Peak Power	6000VA	7000VA	10000VA
Rated Output Voltage	120Vac (L/N/PE single phase)		
Load Capacity of Motors	2HP	2HP	4HP
Rated AC Frequency	50Hz/60Hz		
Waveform	Pure Sine Wave		
Switch Time(typical)	10 ms		
Parallel Capacity	1~6		
BATTERY			
Battery Type	Li-ion/Lead-Acid/User Defind		
Rated Battery Voltage	48Vdc		
Voltage Range	40~60Vdc		
Max.MPPT Charging Current	80A	60A	80A
Max.Mains/Generator Charging Current	40A	40A	40A
Max.Hybrid Charging Current	120A	80A	80A
PV INPUT			
Num. of MPPT Tracker	1		
Max. PV Array Power	4400W	4400W	5200W
Max. Input Current	50A	18A	18A
Max.Voltage of Open Circuit	145V dc	500V dc	500V dc
MPPT Voltage Range	60~115Vdc	120~450Vdc	120~450Vdc
MAINS/GENERATOR INPUT			
Input Voltage Range	90~140Vac		
Frequency Range	50Hz/60Hz		
Bypass Overload Current	40A	30A	40A
EFFICIENCY			
MPPT Tracking Efficiency	99.90%		
Max. Battery Inverter Efficiency	92.00%		
GENERAL			
Dimensions	498*410*201mm (1.6*1.3*0.6ft)	426*322*126mm(1.3*1.0*0.4ft)	426*322*126mm (1.3*1.0*0.4ft)
Weight	10.8 kg (23.8lb)	10.9 kg (24lb)	10.9 kg (24lb)
Protection Degree	IP20, Indoor Only		
Operating Temperature Range	-15°C~+55°C (5°F~55°F)		
Noise	<60dB		
Cooling Method	Internal Fan		
Warranty	1 Year		
COMMUNICATION			
Emb edded Interfaces	RS485/CAN/USB/Dry contact		
External Modules (Optional)	Wi-Fi/GPRS		
CERTIFACATION			
Safety	IEC 62109, SAA ,IEC 61683, cETL UL1741&CSA C22.2		
EMC	EN61000, FCC Part15 ClassB		
RoHS	Yes		

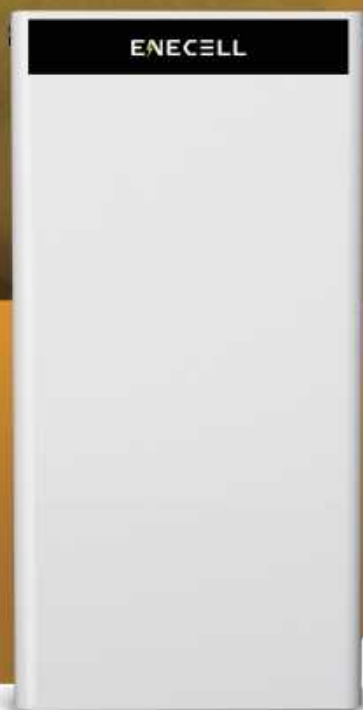
*Information may be subject to modify without notice.

info@enecellpower.com

www.enecellpower.com



ENECELL BATTERY SYSTEM



Features

- 5-40KWh flexible portfolio
- Scalability
- Fast installation
- WIFI & APP

Features

- Max. Battery discharge efficiency 95%
- Euro efficiency 97%
- Max. efficiency 97.60%
- Max. Battery charge efficiency 95%



24B, Microsoft Comtech Building, No. 55, High-tech South 9th Road, High-tech District, Yuehai Street, Nanshan District, Shenzhen

PARAMETER

	ENE-BC10	ENE-BC15	ENE-BC20
Basic Parameters			
Nominal Voltage		51.2V	
Normal Capacity	200Ah	300Ah	400Ah
Normal Energy	10.24kWh	15.36kWh	20.48kWh
Operating Voltage Range		48-56Vdc	
Max Charge/Discharge Current	120A	180A	240A
Peak Charge/Discharge Current	200A(15S)	150A(15S)	200A(15S)
Working Temperature(Charge)		0~+45°C	
Working Temperature(Discharge)		-10 ~+55°C	
Storage Temperature		-20~+60°C	
Humidity		5-95%	
Attitude		<2000 m	
Life Cycles		6000 (80% DOD, 25°C)	
Design Life		10 Years	
Communication Protocol		RS485/CAN	
Maximum Allowed Modules in Parallel	4	2	2
MECHANICAL SPECIFICATIONS			
Width	586mm	580mm	580mm
Depth	146mm	387mm	387mm
Height	1047mm	1117mm	1117mm
Weight	120Kg	173Kg	215Kg
IP Rating		IP55	
Enclosure material		Cool-rolled steel	
Certification			
EMC Certification		IEC 61000, EN55022	
Safety Certification		IEC62619,IEC62040,IEC 63056	
Transportation Certification		UN38.3	

*Information may be subject to modify without notice.

ENECELL BATTERY STORAGE SYSTEM

10.24kWh / 15.36kWh / 20.48kWh

info@enecellpower.com

www.enecellpower.com



ENECELL BATTERY SYSTEM



Features

- CAN communication line connection method
- Suitable for Residential and C&I system
- Connected and ready , no need other facilities
- 8 in series or 8 in parallel
- Up to 8 in series*8 in parallel , a total of 64 batteries(Using BCU module ENE-B64)
- Perfect support for ENE BM5100 or ENE BM2400



ENECELL-BATTERY-MODULE

51.2kWh

info@enecellpower.com

www.enecellpower.com



24B, Microsoft Comtech Building, No. 55, High-tech South 9th Road , High-tech District , Yuehai Street , Nanshan District, Shenzhen

PARAMETER

ENE-BM5100	
Basic Parameters	
Cell Chemistry	LiFePO4
Cell Type	Prismatic
Nominal Voltage	51.2V
Normal Capacity	100Ah
Normal Energy	5.12KWh
Operating Voltage Range	48-56Vdc
Max Charge/Discharge Current	60A
Peak Charge/Discharge Current	100A(15S)
Working Temperature(Charge)	0~+45°C
Working Temperature(Discharge)	-10 ~55°C
Storage Temperature	-20~+60°C
Humidity	5-85%
Attitude	<2000 m
Life Cycles	6000(80% DOD, 25°C)
Design Life	10 Years
Communication Protocol	RS485/CAN
Maximum Allowed Modules in Parallel/Series	8/8
MECHANICAL SPECIFICATIONS	
Width	442mm
Depth	500mm
Height	133mm
Weight	42Kg
IP Rating	IP20
Certification	
EMC Certification	IEC 61000, EN55022
Safety Certification	IEC62619,IEC62040,IEC 63056
Tranportation Certification	UN38.3

*Information may be subject to modify without notice.

ELECTRIC VEHICLE SUPPLY EQUIPMENT

Enecell offers the most affordable and reliable EV Wallbox, AC 7kW/22kW EV charger, AC fast EV charging station and support the growth of a nationwide EV charging infrastructure.

·DC ELECTRIC VEHICLE CHARGING STATION

·AC ELECTRIC VEHICLE CHARGER





DC ELECTRIC VEHICLE CHARGING STATION

Fast DC Electric Vehicle Charging Station ENE160

DC 60-160kW



Output Conditions

Voltage 200~1000V

Rated power 60~160kW

Max Current 200A@One CCS

Peak Efficiency 96%

Input Conditions

Voltage ac 400±15% (3P+N+PE)

Frequency 50~60Hz

Power Factor 0.99

THDi <5%

Mechanical Conditions

Protection Level IP55/IK10

standard IEC 62196 IEC61851

Dimension (W*D*H) 1000*700*2000mm

Communication Protocol DCPP1.6/2.0(Upgrade)

Cooling Method Forced air cooling

Operating Temperature -30°C~+65°C

Relative Humidity 5%~95%

Altitude <2000m

Standard



AC ELECTRIC VEHICLE CHARGER

AC Electric Car Charger ENE G712

(Single Output Wall-Mounted)

7kW / 11kW / 22kW

Dimension (W*H*D)

368*256.5*130mm

Weight

<6.2kg

Rated Power

7kW

11kW

22kW

Input / Output Voltage

230Vac(±10%)L/N/PE

380Vac(±10%)1L/2L/3L/N/PE

380Vac(±10%)1L/2L/3L/N/PE

Input / Output Current

32A

16A

32A

Frequency

50Hz±1Hz

Protection Degree

IP54

Connector

IEC Type2 with 3.5 Meter Cable (5m optional)

RCD

TypeA+DC 6mA

EMC

Class B

Operating Temperature

-30°C—+50°C

Relative Humidity

5%~95%RH

Protection Function

Overvoltage protection, undervoltage protection, overload protection, overtemperature protection, grounding protection, leakage protection, emergency stop protection.

Standard

IEC 61851-1,IEC 61851-22,UL2231,UL2594,UL1998



AC ELECTRIC VEHICLE CHARGER

AC Electric Car Charger ENE R712

(Single Output Wall-Mounted)

7kW / 11kW / 22kW

Size (W*H*D)	φ450mm (406*450*162mm)		
Weight	7.5kg		
Rated Power	7kW	11kW	22kW
Input / Output Voltage	Single-phase 230V	Three-phase 400V	Three-phase 400V
Input / Output Current	32A	16A	32A
Frequency	50Hz±1Hz		
Protection Degree	IP65		
Communication Method	LAN / Wifi / 4G(optional)		
Connector	IEC Type2 with 3.5 Meter Cable (5m optional)		
Communication Protocol	OCPP1.6J(can updated to 2.0)		
Payment Method	NFC / RFID / Plug and Charge / APP(optional)		
RCD	Type A 30mA +DC6mA / Type B		
EMC	Class B		
Operating Temperature	-30°C—+55°C		
Relative Humidity	5%~95%		
Protection Function	Over current protection, over voltage / under voltage protection, over temperature protection, lightning protection, short circuitprotection, ground fault protection, etc.		
Metering	MID Meter		
Function Extension	Extended Bluetooth,Load Balancing System		
Standard	IEC61581-1:2017,IEC61851-1:2019,IEC62196-21-2:2021		



AC ELECTRIC VEHICLE CHARGER

AC Electric Car Charger ENE S7

(Single Output Wall-Mounted)

7kW

Size (L*W*H)	385*200*145mm
Weight	2.85kg (cable ver.) / 2.35kg(socket ver.)
Rated Power	7kW
Input / Output Voltage	Single-phase 230V
Input / Output Current	32A
Frequency	50/60Hz
Protection Degree	IP65
Communication Method	Bluetooth or Wi-Fi / 4G
Connector	IEC Type2 with 5 meter cable (3m optional)
Communication Protocol	OCPP1.6J (can updated to 2.0)
Payment Method	NFC / RFID / Plug and Charge / APP
RCD	Type A+DC 6mA
EMC	Class B
Operating Temperature	-30°C—+55°C
Relative Humidity	5%—95%
Protection Function	Over current protection, over voltage / under voltage protection, over temperature protection, lightning protection, short circuitprotection, ground fault protection, etc.
Standard	IEC61581-1:2017,IEC61851-1:2019,IEC62196-21-2:2021

SHINGLED MODULES

Enecell has formed a series of fully-flexible, zero-lead, eco-friendly shingled modules that bring less LCOE (Levelized Cost Of Electricity) for customers at terminal power stations and cover the diverse needs of global customers.



Exquisite Appearance



Reliable Quality



Higher Efficiency



Eco-friendly Easy-recycling Design

·SHINGLED MONOFACIAL MODULE

·SHINGLED BIFACIAL MODULE

ENECELL



SHINGLED MONOFACIAL MODULE

ENE-425W-4SCF

Electrical Characteristics(STC)

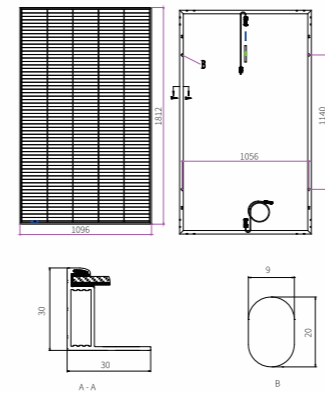
Module type: TH***PMB7-44SCF	425	420	415	410	405	400
Maximum Power-Pm (W)	425	420	415	410	405	400
Open Circuit Voltage-Voc (V)	41.7	41.6	41.5	41.4	41.3	41.2
Short Circuit Current-Isc[A]	13.03	12.92	12.80	12.65	12.53	12.41
Maximum Power Voltage-Vm[V]	34.6	34.5	34.4	34.4	34.3	34.2
Maximum Power Current-Im[A]	12.30	12.19	12.08	11.97	11.86	11.75
Module Efficiency-η[%]	21.4	21.1	20.9	20.6	20.4	20.1

Electrical Characteristics at NMOT

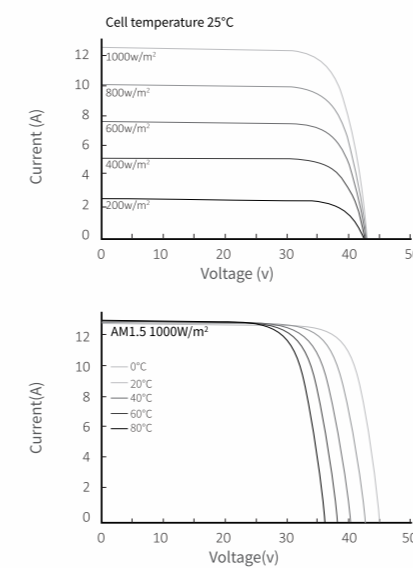
Maximum Power-Pm (W)	320	316	312	309	305	301
Open Circuit Voltage-Voc (V)	39.8	39.7	39.6	39.5	39.4	39.3
Short Circuit Current-Isc[A]	10.50	10.41	10.31	10.19	10.09	10.00
Maximum Power Voltage-Vm[V]	33.0	32.9	32.8	32.8	32.7	32.6
Maximum Power Current-Im[A]	9.70	9.62	9.53	9.41	9.33	9.24

Note:1.Standar Test Conditions(STC):irradiance 1000W/m²; AM1.5; ambient temperature 25°C according to EN 60904-3;
2.Nominal Module Operating Temperature (NMOT):Irradiance 800W/m²; wind speed 1m/s, ambient temperature 20°C;
3.Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3% Performance deviation of Voc[V],Isc[A],Vm[V] and Im[A]:±3%

Drawings



I-V Curve



Declaration:

With the technical progress and product updates,there exists a deviation between the technical parameter of the ENECELL Solar's future products and the technical parameter in this specification.The ENECELL Solar reserves the right to adjust the technical parameter at any time without notifying the customers. ENECELL Solar reserves the final right of interpretation.

Mechanical Parameters

Dimensions	1812*1096*30mm
Weight	20.8kg±0.3kg
Front glass	tempered glass, 3.2mm
Frame	Anodized aluminum profile All black module
Cells	Mono-crystalline solar cell
Cell Orientation	305 (61*5)
Junction Box	IP68,two diodes
Cable	4mm ² , +300mm/-1000mm(Vertical),+220mm/-180mm(Horizontal)
Packaging	36pcs/box;924pcs/40' container;1296pcs/flat car

Temperature Parameters

NMOT	42.30°C(±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Pm	-0.34%/°C

Maximum Ratings

Maximum System Voltage[V]	DC1500(IEC)
Series Fuse Rating[A]	25
Maximum Surface Load Capacity [Pa]	Front 5400/Back 2400
Temperature Range[°C]	-40~+85
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23m/s

SHINGLED MONOFACIAL MODULE

ENE-430W-4SS/SCB

Electrical Characteristics(STC)

Module type: TH***PMB7-44SCF	430	425	420	415	410	405
Maximum Power-Pm (W)	430	425	420	415	410	405
Open Circuit Voltage-Voc (V)	41.8	41.7	41.6	41.5	41.4	41.3
Short Circuit Current-Isc[A]	13.05	13.03	12.92	12.80	12.65	12.53
Maximum Power Voltage-Vm[V]	34.7	34.6	34.5	34.4	34.4	34.3
Maximum Power Current-Im[A]	12.40	12.30	12.19	12.08	11.97	11.86
Module Efficiency-η[%]	21.7	21.4	21.1	20.9	20.6	20.4

Electrical Characteristics at NMOT

Maximum Power-Pm (W)	324	320	316	312	309	305
Open Circuit Voltage-Voc (V)	39.8	39.8	39.7	39.6	39.5	39.4
Short Circuit Current-Isc[A]	10.51	10.50	10.41	10.31	10.19	10.09
Maximum Power Voltage-Vm[V]	33.1	33.0	32.9	32.8	32.8	32.7
Maximum Power Current-Im[A]	9.79	9.70	9.62	9.53	9.41	9.33

Note:1.Standard Test Conditions(STC):irradiance 1000W/m²; AM1.5; ambient temperature 25°C according to EN 60904-3;
 2.Nominal Module Operating Temperature (NMOT):Irradiance 800W/m²; wind speed 1m/s, ambient temperature 20°C;
 3.Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%.Performance deviation of Voc[V],Isc[A],Vm[V] and Im[A]:±3%

Mechanical Parameters

Dimensions	1812*1096*30mm
Weight	20.8kg±0.3kg
Front glass	tempered glass, 3.2mm
Frame	Anodized aluminum profile silver / black
Cells	Mono-crystalline solar cell
Cell Orientation	305 (61*5)
Junction Box	IP68,two diodes
Cable	4mm ² , +300mm/-1000mm(Vertical),+220mm/-180mm(Horizontal)
Packaging	36pcs/box;924pcs/40' container;1296pcs/flat car

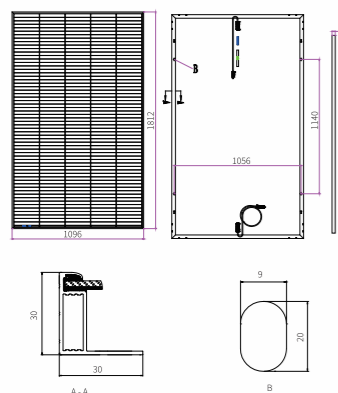
Temperature Parameters

NMOT	42.30°C(±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Pm	-0.34%/°C

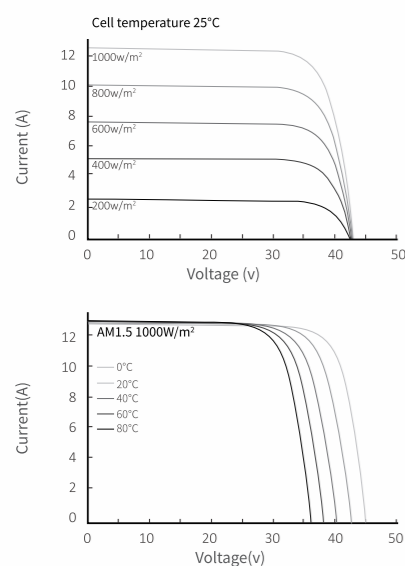
Maximum Ratings

Maximum System Voltage[V]	DC1500(IEC)
Series Fuse Rating[A]	25
Maximum Surface Load Capacity [Pa]	Front 5400/Back 2400
Temperature Range[°C]	-40~+85
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23m/s

Drawings



I-V Curve



Declaration:
 With the technical progress and product updates,there exists a deviation between the technical parameter of the ENECELL Solar's future products and the technical parameter in this specification.The ENECELL Solar reserves the right to adjust the technical parameter at any time without notifying the customers. ENECELL Solar reserves the final right of interpretation.

SHINGLED MONOFACIAL MODULE

ENE-445W-6SS/SCF/SCB

Electrical Characteristics(STC)

Module type: TH***PMB7-46SCF	445	440	435	430	425	420
Maximum Power-Pm (W)	445	440	435	430	425	420
Open Circuit Voltage-Voc (V)	43.8	43.7	43.6	43.5	43.4	43.3
Short Circuit Current-Isc[A]	13.01	12.90	12.79	12.68	12.56	12.46
Maximum Power Voltage-Vm[V]	36.4	36.3	36.2	36.1	36.0	35.9
Maximum Power Current-Im[A]	12.23	12.13	12.02	11.92	11.81	11.71
Module Efficiency-η[%]	21.4	21.1	20.9	20.7	20.4	20.2

Electrical Characteristics at NMOT

Maximum Power-Pm (W)	335	331	328	324	320	316
Open Circuit Voltage-Voc (V)	41.8	41.7	41.6	41.5	41.4	41.3
Short Circuit Current-Isc[A]	10.50	10.41	10.32	10.23	10.14	10.05
Maximum Power Voltage-Vm[V]	34.7	34.6	34.5	34.4	34.3	34.2
Maximum Power Current-Im[A]	9.66	9.57	9.49	9.41	9.32	9.24

Note:1.Standard Test Conditions(STC):irradiance 1000W/m²; AM1.5; ambient temperature 25°C according to EN 60904-3;
 2.Nominal Module Operating Temperature (NMOT):Irradiance 800W/m²; wind speed 1m/s, ambient temperature 20°C;
 3.Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%.Performance deviation of Voc[V],Isc[A],Vm[V] and Im[A]:±3%

Mechanical Parameters

Dimensions	1899*1096*30mm
Weight	21.8kg
Front glass	tempered glass, 3.2mm
Frame	Anodized aluminum profile silver / All black module / black
Cells	Mono-crystalline solar cell
Cell Orientation	320 (64*5)
Junction Box	IP68,two diodes
Cable	4mm ² , +300mm/-1000mm(Vertical),+220mm/-180mm(Horizontal)
Packaging	36pcs/box;864pcs/40' container;1296pcs/flat car

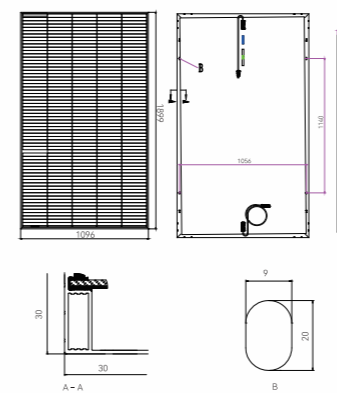
Temperature Parameters

NMOT	42.30°C(±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Pm	-0.34%/°C

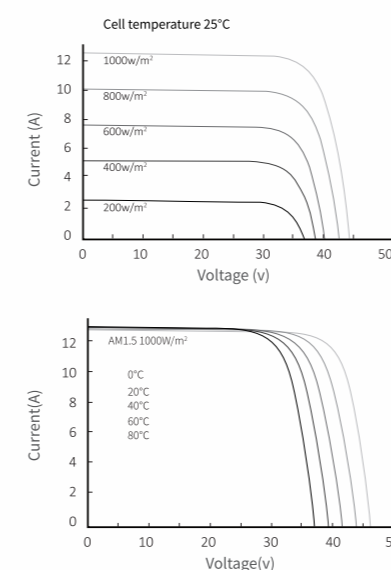
Maximum Ratings

Maximum System Voltage[V]	DC1500(IEC)
Series Fuse Rating[A]	25
Maximum Surface Load Capacity [Pa]	Front 5400/Back 2400
Temperature Range[°C]	-40~+85
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23m/s

Drawings



I-V Curve



Declaration:
 With the technical progress and product updates,there exists a deviation between the technical parameter of the ENECELL Solar's future products and the technical parameter in this specification.The ENECELL Solar reserves the right to adjust the technical parameter at any time without notifying the customers. ENECELL Solar reserves the final right of interpretation.

SHINGLED MONOFACIAL MODULE

ENE-560W-58SS

Electrical Characteristics(STC)

Module type: TH***PMB7-44SCF	560	555	550	545	540	535
Maximum Power-Pm (W)	560	555	550	545	540	535
Open Circuit Voltage-Voc (V)	47.3	47.2	47.1	47.0	46.9	46.8
Short Circuit Current-Isc[A]	15.17	15.07	14.97	14.86	14.76	14.65
Maximum Power Voltage-Vm[V]	39.3	39.2	39.1	39.0	38.9	38.8
Maximum Power Current-Im[A]	14.26	14.17	14.07	13.97	13.87	13.77
Module Efficiency-η[%]	21.4	21.2	21.0	20.9	20.7	20.5

Electrical Characteristics at NMOT

Maximum Power-Pm (W)	422	418	414	410	407	403
Open Circuit Voltage-Voc (V)	45.1	45.0	44.9	44.8	44.7	44.6
Short Circuit Current-Isc[A]	12.22	12.14	12.06	11.97	11.89	11.80
Maximum Power Voltage-Vm[V]	37.4	37.3	37.3	37.2	37.1	37.0
Maximum Power Current-Im[A]	11.27	11.19	11.11	11.03	10.96	10.88

Note:1.Standar Test Conditions(STC):irradiance 1000W/m²; AM1.5; ambient temperature 25°C according to EN 60904-3;
 2.Nominal Module Operating Temperature (NMOT):Irradiance 800W/m²; wind speed 1m/s, ambient temperature 20°C;
 3.Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%.Performance deviation of Voc[V],Isc[A],Vm[V] and Im[A]:±3%

Mechanical Parameters

Dimensions	2384*1096*35mm
Weight	28.3kg
Front glass	tempered glass, 3.2mm
Frame	Anodized aluminum profile silver
Cells	Mono-crystalline solar cell
Cell Orientation	345 (69*5)
Junction Box	IP68,three diodes
Cable	4mm ² , +500mm/-1100mm(Vertical),+220mm/-180mm(Horizontal)
Packaging	31pcs/box;620pcs/40' container;868pcs/flat car

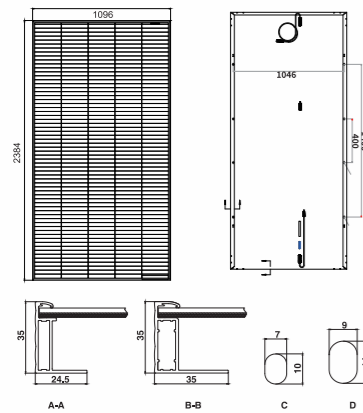
Temperature Parameters

NMOT	42.30°C(±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Pm	-0.34%/°C

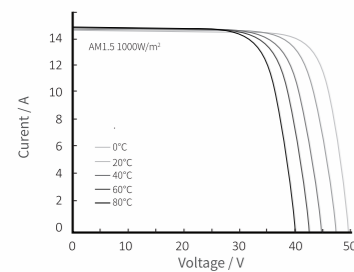
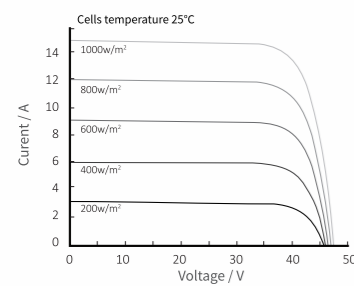
Maximum Ratings

Maximum System Voltage[V]	DC1500(IEC)
Series Fuse Rating[A]	25
Maximum Surface Load Capacity [Pa]	Front 5400/Back 2400
Temperature Range[°C]	-40~+85
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23m/s

Drawings



I-V Curve



Declaration:
 With the technical progress and product updates,there exists a deviation between the technical parameter of the ENECELL Solar's future products and the technical parameter in this specification.The ENECELL Solar reserves the right to adjust the technical parameter at any time without notifying the customers. ENECELL Solar reserves the final right of interpretation.

SHINGLED BIFACIAL MODULE

ENE-555W-58SDS

Electrical Characteristics(STC)

Module type: TH***PMB7-46SCF	555	550	545	540	535	530
Maximum Power-Pm (W)	555	550	545	540	535	530
Open Circuit Voltage-Voc (V)	47.2	47.1	47.0	46.9	46.8	46.7
Short Circuit Current-Isc[A]	15.07	14.97	14.86	14.76	14.65	14.55
Maximum Power Voltage-Vm[V]	39.2	39.1	39.0	38.9	38.8	38.8
Maximum Power Current-Im[A]	14.17	14.07	13.98	13.89	13.79	13.67
Module Efficiency-η[%]	21.2	21.0	20.9	20.7	20.5	20.3

Electrical Characteristics at NMOT

Maximum Power-Pm (W)	416	413	409	405	401	398
Open Circuit Voltage-Voc (V)	44.9	44.8	44.7	44.6	44.5	44.4
Short Circuit Current-Isc[A]	12.14	12.06	11.97	11.89	11.80	11.72
Maximum Power Voltage-Vm[V]	37.3	37.2	37.1	37.0	37.0	36.9
Maximum Power Current-Im[A]	11.17	11.09	11.01	10.94	10.86	10.78

Note:1.Standar Test Conditions(STC):irradiance 1000W/m²; AM1.5; ambient temperature 25°C according to EN 60904-3;
 2.Nominal Module Operating Temperature (NMOT):Irradiance 800W/m²; wind speed 1m/s, ambient temperature 20°C;
 3.Tolerance of Pm: 0~+5W, Measuring uncertainty of power: ±3%.Performance deviation of Voc[V],Isc[A],Vm[V] and Im[A]:±3%
 4.Bifaciality:Glazing 70±5%

Electrical Characteristics with different rear side power gain (reference to 545W front)

Power Gain-PG	5%	10%	15%	20%	25%	30%
Maximum Power-Pm[W]	572	600	627	654	681	709
Open Circuit Voltage-Voc[V]	47.0	47.0	47.0	47.1	47.1	47.1
Short Circuit Current -Isc[A]	15.61	16.35	17.09	17.84	18.58	19.32
Maximum Power Voltage-Vm[V]	39.0	39.0	39.0	39.1	39.1	39.1
Maximum Power Current-Im[A]	14.77	15.48	16.18	16.88	17.59	18.29

Mechanical Characteristics

Dimensions	2384*1096*30mm
Weight	32.0±0.3kg
Front glass	tempered glass, 2.0mm
Frame	Anodized aluminum profile silver
Cells	Mono-crystalline solar cell
Cell Orientation	345 (69*5)
Junction Box	IP68,three diodes
Cable	4mm ² , +500mm/-1000mm(Vertical),+220mm/-180mm(H), be customized by customer
Packaging	36pcs/box;720pcs/40' container;1008pcs/flat car

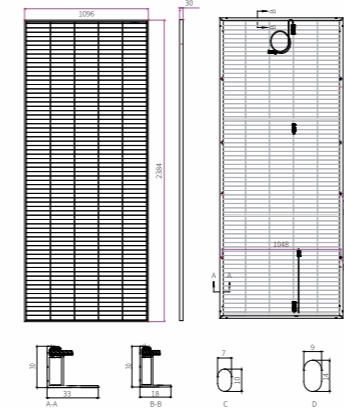
Temperature Characteristics

NMOT	42.30°C(±2°C)
Temperature Coefficient of Voc	-0.27%/°C
Temperature Coefficient of Isc	+0.04%/°C
Temperature Coefficient of Pm	-0.34%/°C

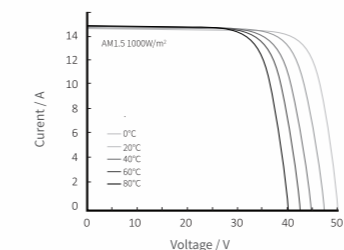
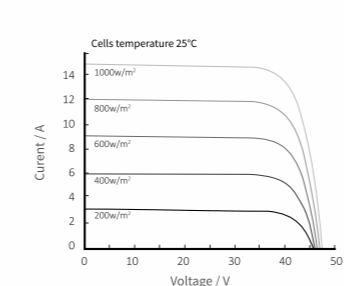
Maximum Ratings

Maximum System Voltage[V]	DC1500
Series Fuse Rating[A]	30
Maximum Surface Load Capacity [Pa]	Front 5400/Back 2400
Temperature Range[°C]	-40~+85
Withstanding Hail	Maximum diameter of 25 mm with impact speed of 23m/s

Drawings



I-V Curve



Declaration:
 With the technical progress and product updates,there exists a deviation between the technical parameter of the ENECELL Solar's future products and the technical parameter in this specification.The ENECELL Solar reserves the right to adjust the technical parameter at any time without notifying the customers. ENECELL Solar reserves the final right of interpretation.

ENECELL SMART ENERGY MANAGEMENT SYSTEM



- For residential / commercial / storage application
- Android / ios APP comply with latest Android/ios system
- A cloud service based in Europe, America, Singapore and China
- String monitoring
- Intelligent data analysis

DATA MONITORING / REMOTE MAINTENANCE / ENERGY MANAGEMENT



Power management:

- Power station data real-time monitoring, global master station information
- Support for remote parameter setting and load monitoring

Data visualization:

- More power stations domestic centralized management, data visualization
- Support data report export, the alarm information real-time delivery

Intelligence operations:

- Intelligent switch diagnosis efficiency (PR value)
- Order, order integration, the repair order fast response

PRESALES SUPPORT



TAILORED SOLUTIONS



SPECIALIZED PRODUCT CONSULTING



ONE-ON-ONE APPLICATION COACHING



SYSTEMATIC PRODUCT TRAINING

AFTER SALE SERVICE



SUFFICIENT WARRANTY

- 24 month standard warranty for inverters up to \$10M Product Liability
- Insurance for unit shipped



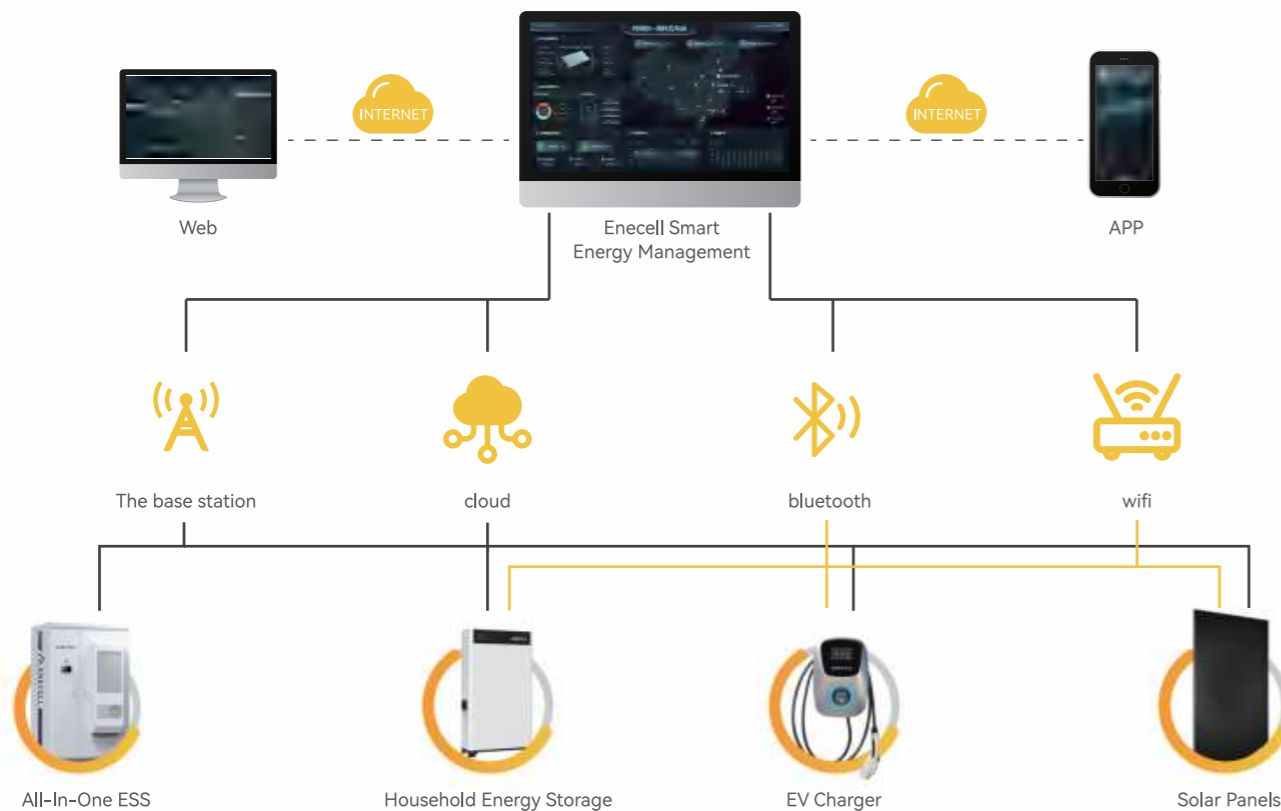
REPLACEMENT SERVICE

- Spare units provide for quick replacement of the failure unit
- Remaining warranty period of defective unit transferred automatically




RESPONSIVENESS


- Quick response to any quality issues and service request from partners
- Expertise on various field applications to help problem solving




CASES STUDY

 FOSHAN, CHINA
Charging Station



 XIAN, CHINA
Intelligent Substation Project




 SHANTOU, CHINA
Battery Storage System




 ITALY
Battery Storage System




 UK
Household Storage System



 CENTRAL AMERICA
Intelligent Substation Project



 BRAZILIAN FACTORY
Commercial Solar System Project

