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电话号码:
Phone number
网址:
Website
联系地址:
Contact Address

Product Manual

合肥昇科特新能源科技有限公司

HEFEI SUNKIT NEW ENERGY AND TECHNOLOGY COMPANY

VISION

BECOME THE MOST TRUSTED SMART
MICROGRID SERVICE PROVIDER IN THE
GLOBAL ENERGY TRANSITION

Core values

Balancing personal and public interests, Co-creation and Co-sharing,
Constantly striving for great products, seeking the truth and doing
practical work.

Mission

Charge the world with electricity, making the future more beautiful.

Vision

To become the most trustworthy intelligent micro network service
provider in the energy transition.

SUNKIT

TABLE OF CONTENTS

01 Corporate Section

03 About SunKit

02 Products Section

9 Solar photovoltaic panel

17 Inverter

25 Energy storage

03 Case Studies Section

35 Case Images



About Us



Hefei Sunkit New Energy And Technology Company. (hereinafter referred to as SUNKIT) is mainly responsible for implementing strategic missions in the field of new energy. With over 20 years of professional experience in the power industry, Sunkit focuses primarily on the research, development, application, and sales of solar modules, inverters, and advanced energy storage.

Since its establishment in 2013, Sunkit has built a complete value chain covering research and development, intelligent manufacturing, system integration, and operation services, dedicated to providing efficient, safe, and intelligent energy solutions globally.

Driven by technological innovation, Sunkit has assembled a high-quality R&D team and has made breakthroughs in photovoltaic and energy storage integrated systems, filling key gaps in the industry. Its product portfolio includes energy storage battery systems, energy storage inverters, and photovoltaic modules, which are widely used in residential energy storage, photovoltaic power plants, transportation, communications, and electric vehicle charging.

Sunkit operates in over 60 countries and regions worldwide, providing reliable high-performance solutions for diverse energy needs. Through excellent product quality, cutting-edge technology, and professional services, the company has established a leading position in photovoltaic power generation, energy storage integration, and smart microgrid solutions, promoting the global development of clean energy from households to industries.



GLOBAL LAYOUT MAP

Sunkit New Energy's products are available in over 60 countries worldwide, with independent overseas offices established to handle after-sales fulfillment.

Each service team is equipped with professional technical support personnel to ensure prompt responsesto customer inquiries and provide localized services.

A 24/7 after-sales service hotline is available. Upon receiving service requests,we commit to respondingwithin 0.5 hours, dispatching personnel to designated locations within 8 hours, and submitting tailoredsolutions within two business days.

Xiangming New Energy's products are available in over 60 countries worldwide



24hour

24-hour after-sales service hotline

0.5hour

Provide a response within 0.5 hours

8hour

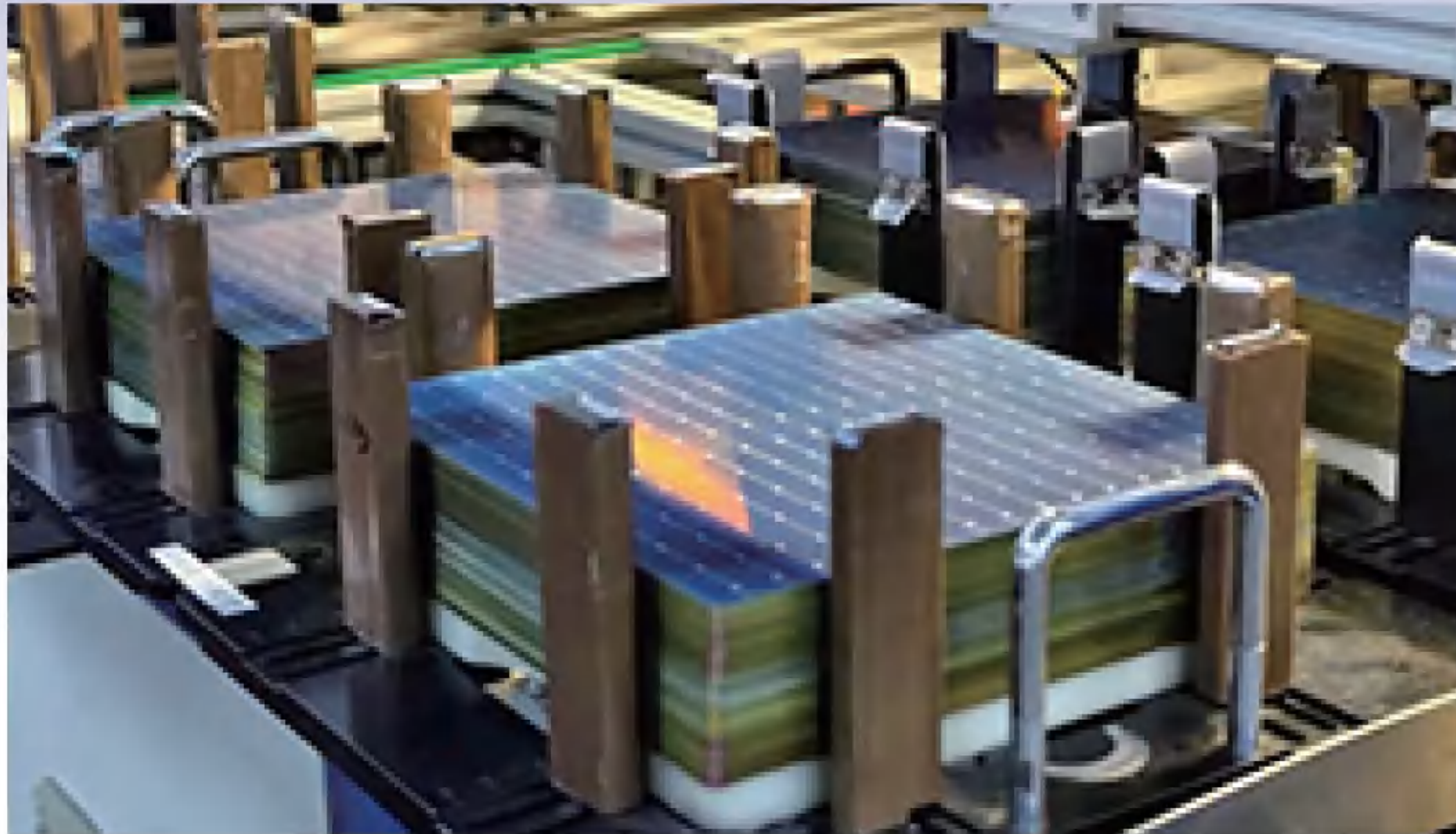
Provide services at the designated location within 8 hours

2days

submit a processing plan within two working days

QUALIFICATIONS AND STRENGTH

We have an industry-leading reliability lab. Our test system exceeds international standards. It conducts full life-cycle safety and stability verification for all our power equipment products. We perform stringent tests like environmental adaptability. electrical safety, and long-term aging. This ensures our devices operate efficiently in extreme environments. The lab is CNAS accredited.



Examination Certificate of SICT

CERTIFICATE of Conformity
EC Council Directive
Certificate No.: XK250

Applicant : HFEI SUNKIT NEW ENERGY
Address : Datong Industry and Trade Development Zone, Tongji
City, Anhui Province

Manufacturer : HFEI SUNKIT NEW ENERGY
Address : Datong Industry and Trade Development Zone, Tongji
City, Anhui Province

Product : Solar Module

Model/Type No : SK-630N-72HD(See the model)

Brand Name : N/A

Test Standard : EN IEC 61600-4-3:2021
EN IEC 61600-4-1:2019
EN IEC 61600-3-2:2019+A2:2021
EN IEC 61600-3-2:2019-A1:21

The certificate of conformity is based on an ev-mentioned product. Technical report is at the the tested sample that is in conformity with it. It is only valid in connection with the test report

The certificate does not imply the assessment permit using the SICT's logo without permis

Authoriz

Shenzhen SICT Technology Co., Ltd.
202, Building 2, No. 111 Huanggang Middle Road, Qianhuo Street, Longhua District, Shenzhen, G Guangdong, China (518033)

Examination Certificate of SICT

CERTIFICATE of Conformity
EC Council Directive
Certificate No.: XK250

Applicant : HFEI SUNKIT NEW ENERGY
Address : Datong Industry and Trade Development Zone, Tongji
City, Anhui Province

Manufacturer : HFEI SUNKIT NEW ENERGY
Address : Datong Industry and Trade Development Zone, Tongji
City, Anhui Province

Product : Solar Module

Model/Type No : SK-750N-54HD(See the model)

Brand Name : N/A

Test Standard : EN IEC 61600-4-3:2021
EN IEC 61600-4-1:2019
EN IEC 61600-3-2:2019+A2:2021
EN IEC 61600-3-2:2019-A1:21

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202, Building 2, No. 111 Huanggang Middle Road, Qianhuo Street, Longhua District, Shenzhen, G Guangdong, China (518033)

CERTIFICATE OF CONFORMITY

Applicant : Hefe Sunkit New Energy / Datong Industry and Trade Development Zone, Tongji
Address : Hefe Sunkit New Energy / Datong Industry and Trade Development Zone, Tongji
City, Anhui Province

Manufacturer : Hefe Sunkit New Energy / Datong Industry and Trade Development Zone, Tongji
Address : Hefe Sunkit New Energy / Datong Industry and Trade Development Zone, Tongji
City, Anhui Province

Product : Inverter

Power Rating : Input:5000V
Output:120VAC,50Hz, Peak 1
Model No : SK6000-10000-3000V
Brand Name : N/A

Test Standard : EN IEC 62109-1, 20
EN IEC 62109-2, 20
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Products Section



Our solar photovoltaic (PV) modules are available in a full power range from 50W to 750W, delivering reliable performance for applications spanning small off-grid devices, residential rooftops, commercial & industrial installations, and utility-scale solar farms.



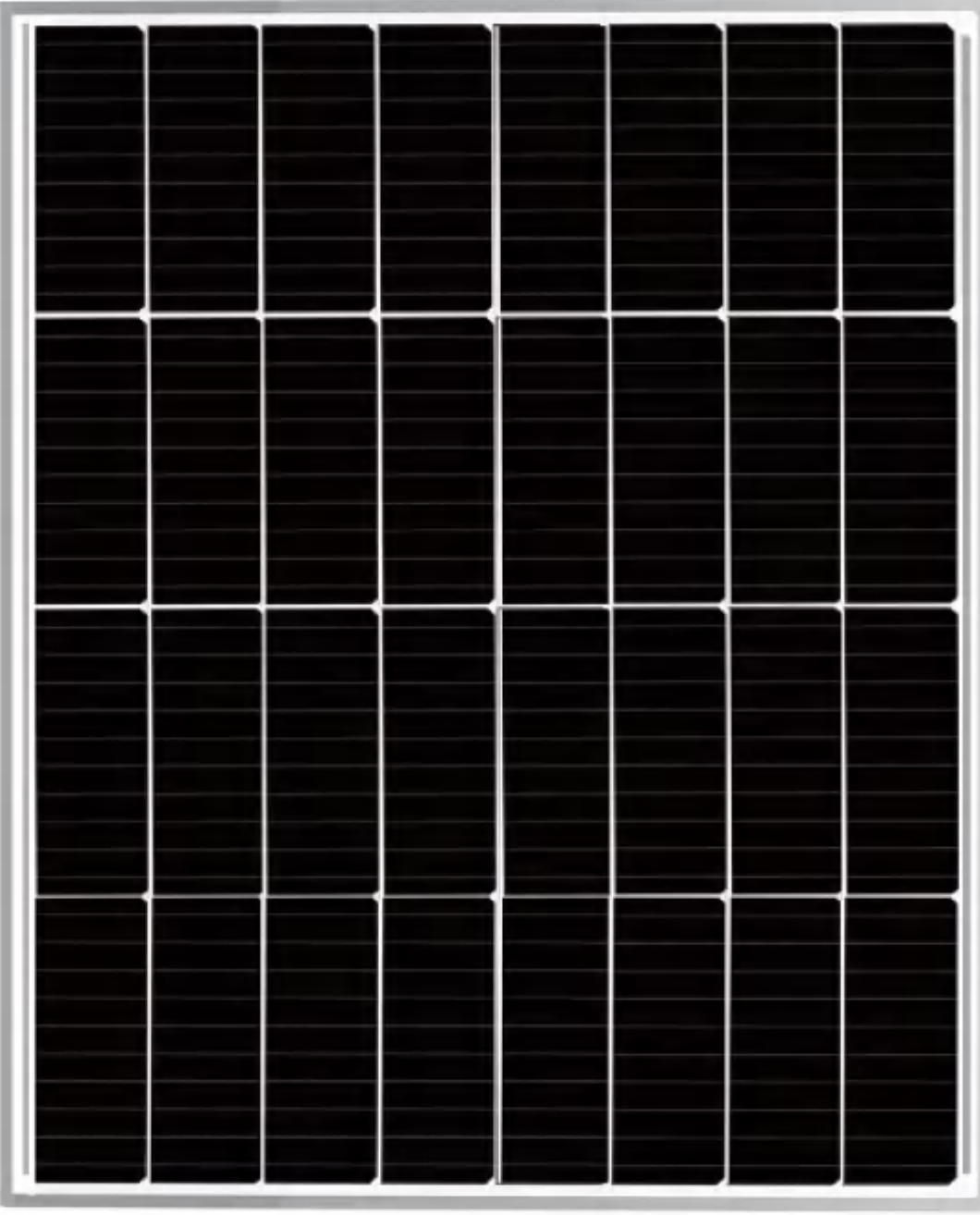
Our company's battery products have a complete range and flexible selection, including floor-standing, wall-mounted, stackable, rack-mounted batteries and lead-acid batteries, which can accurately meet the usage needs of various scenarios and provide customers with diversified power supply solutions.

Deeply rooted in the inverter industry, we offer full-category coverage to meet diverse needs. Our company specializes in inverter products, covering nine core categories: single-phase hybrid grid inverter, single-phase grid-tied inverter, single-phase off-grid inverter, three-phase hybrid grid inverter, three-phase grid-tied inverter, three-phase off-grid inverter, split-phase hybrid grid inverter, split-phase grid-tied inverter, and split-phase off-grid inverter.



Our integrated energy storage cabinets are available in a power range from 50 kW to 1 MW, offering flexible selection based on customers' actual power demand and site scale. They adapt to a wide variety of scenarios, including industrial and commercial power supply, park peak load shifting, and outdoor temporary power supply, ensuring stable and reliable operation..



Product line	Single-pane glass	Double glass	
	SK450N-54H	SK100M-32S	SK-750N-66H
Product Image			
Product Model	SK450N-54H Standard Single Glass SK450N-54H Single-glass dust-proof	SK100M-32S Standard double glass SK100M-32S Double-glass dust-proof	SK-750N-66H
Application Scenario			
			
Applicable Scenarios	Suitable for scenarios where the roof has limited load-bearing capacity and is not suitable for angled construction, such as color steel sheets and sloped roofs.		Suitable for roofs with strong load-bearing capacity and for scenarios that require angled construction, such as concrete flat roofs, sunrooms, and the like.

Three major features

- Fire-resistant, Safer

The temperature at the shaded area is more than 50°C lower than that of conventional modules.
- Anti-shading, higher power generation

After shading, the power loss is reduced by 70% compared with conventional products.
- Dust-resistant,less power loss

Its power generation is more than 2% higher than that of conventional modules. It reduces shading loss caused by dust accumulation and features snow resistance.

Solar system



5Kw-1000Kw
On grid solar system



3Kw-500Kw
Off grid solar system



5Kw-500Kw
Energy solar system

Other products

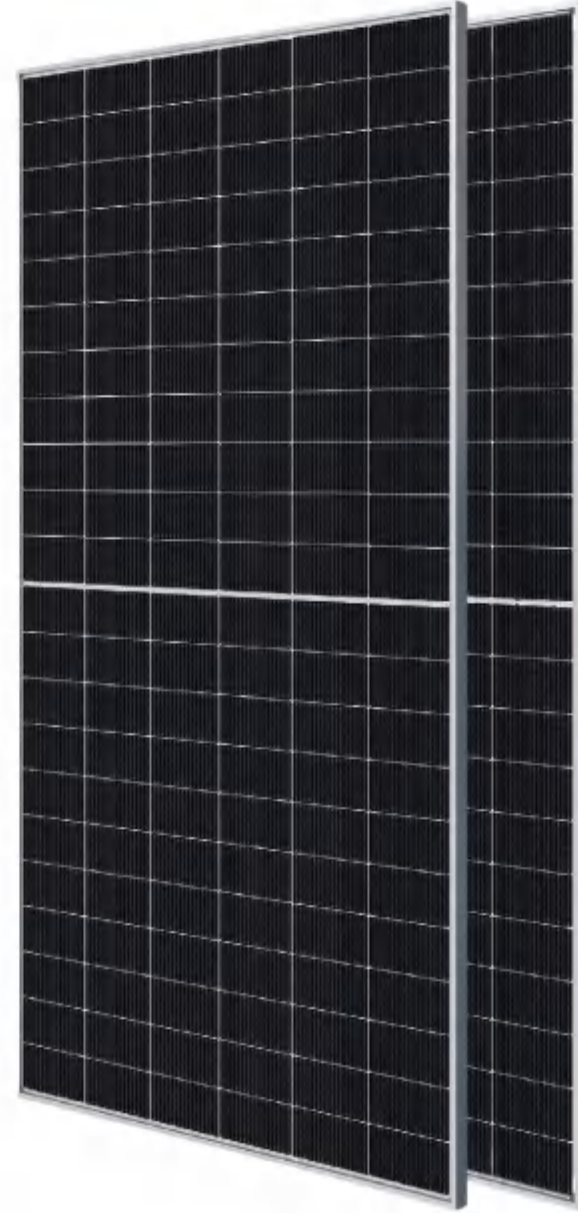
AIKO



Trinasolar



risen



LONGI



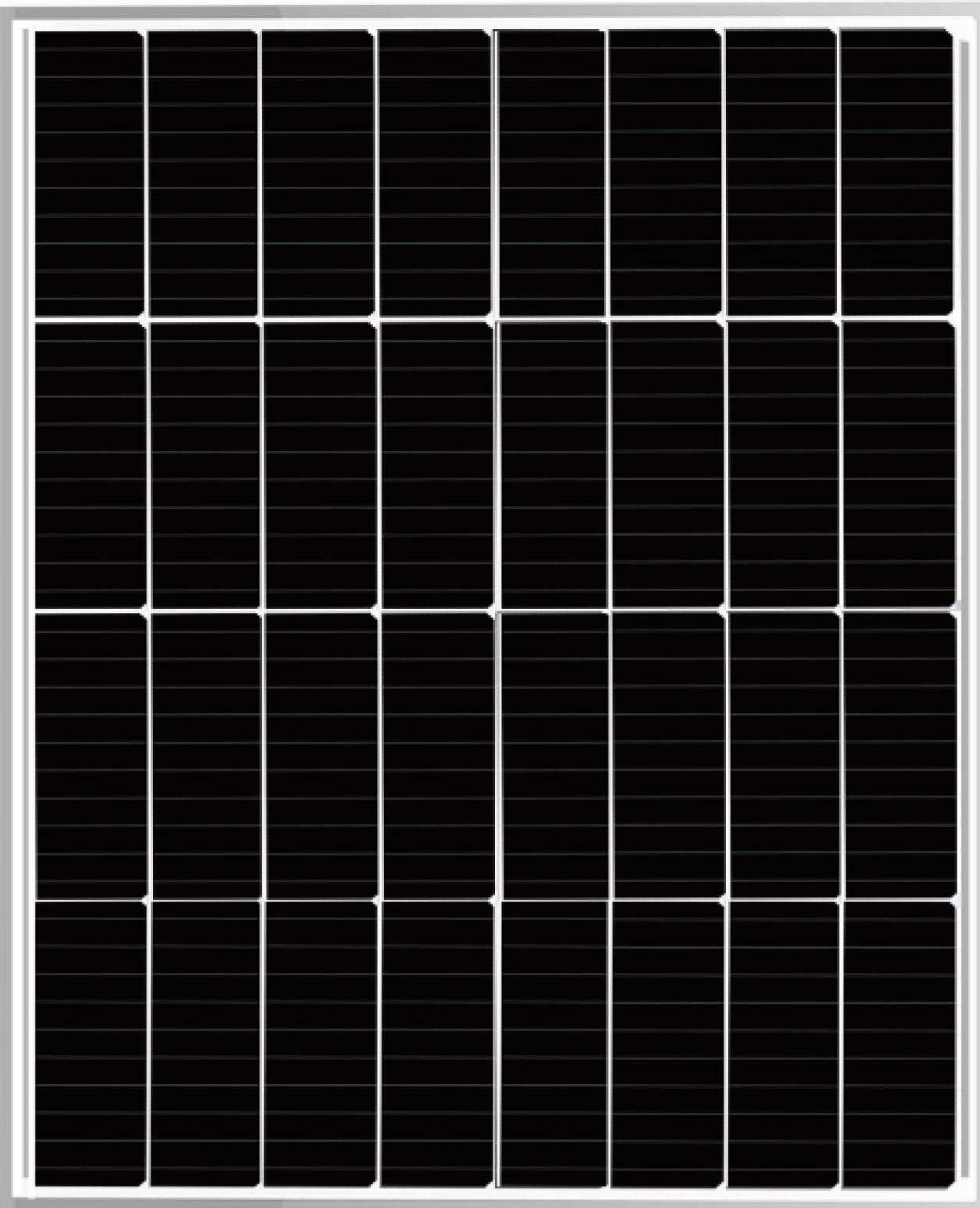
AIKO, LONGI, Trinasolar, Jinko, Ja solar, Risen energy, Astronergy, TW-tongwei, Yingli

Eternal Series 39S

100watt

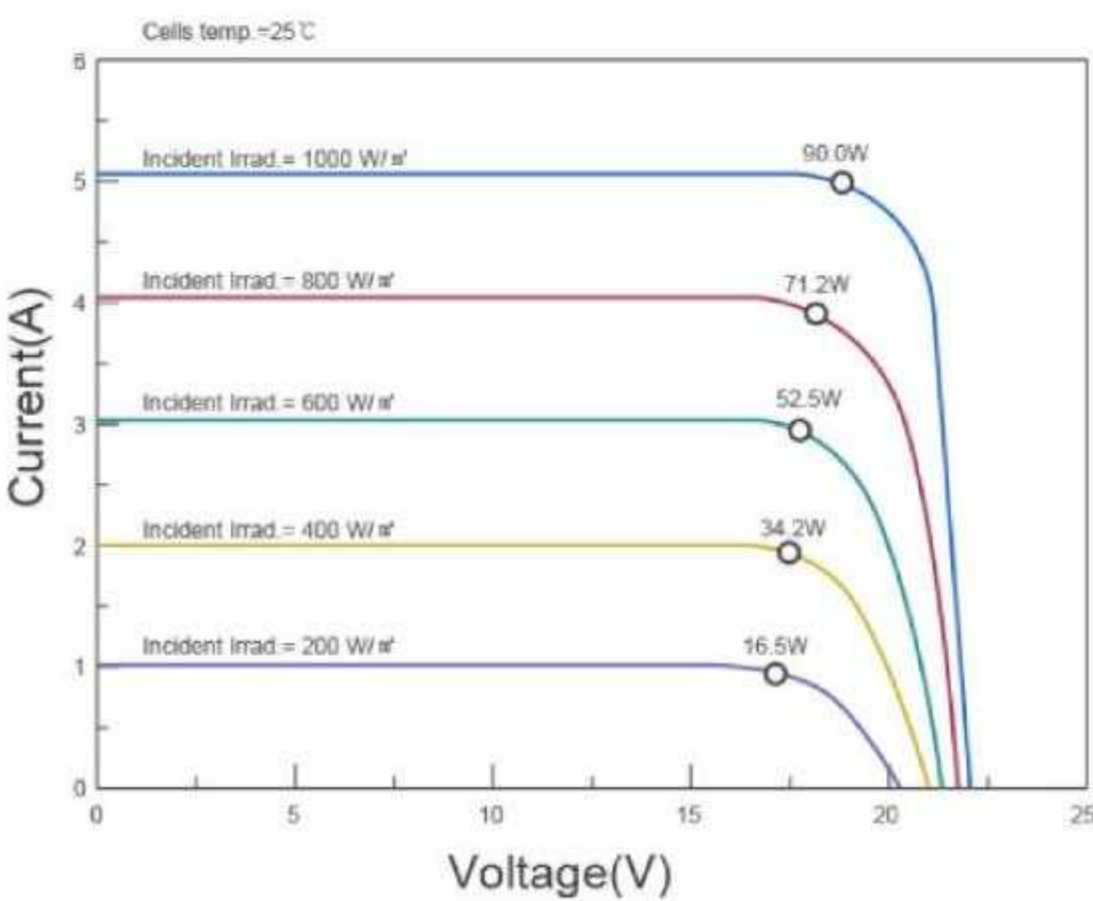
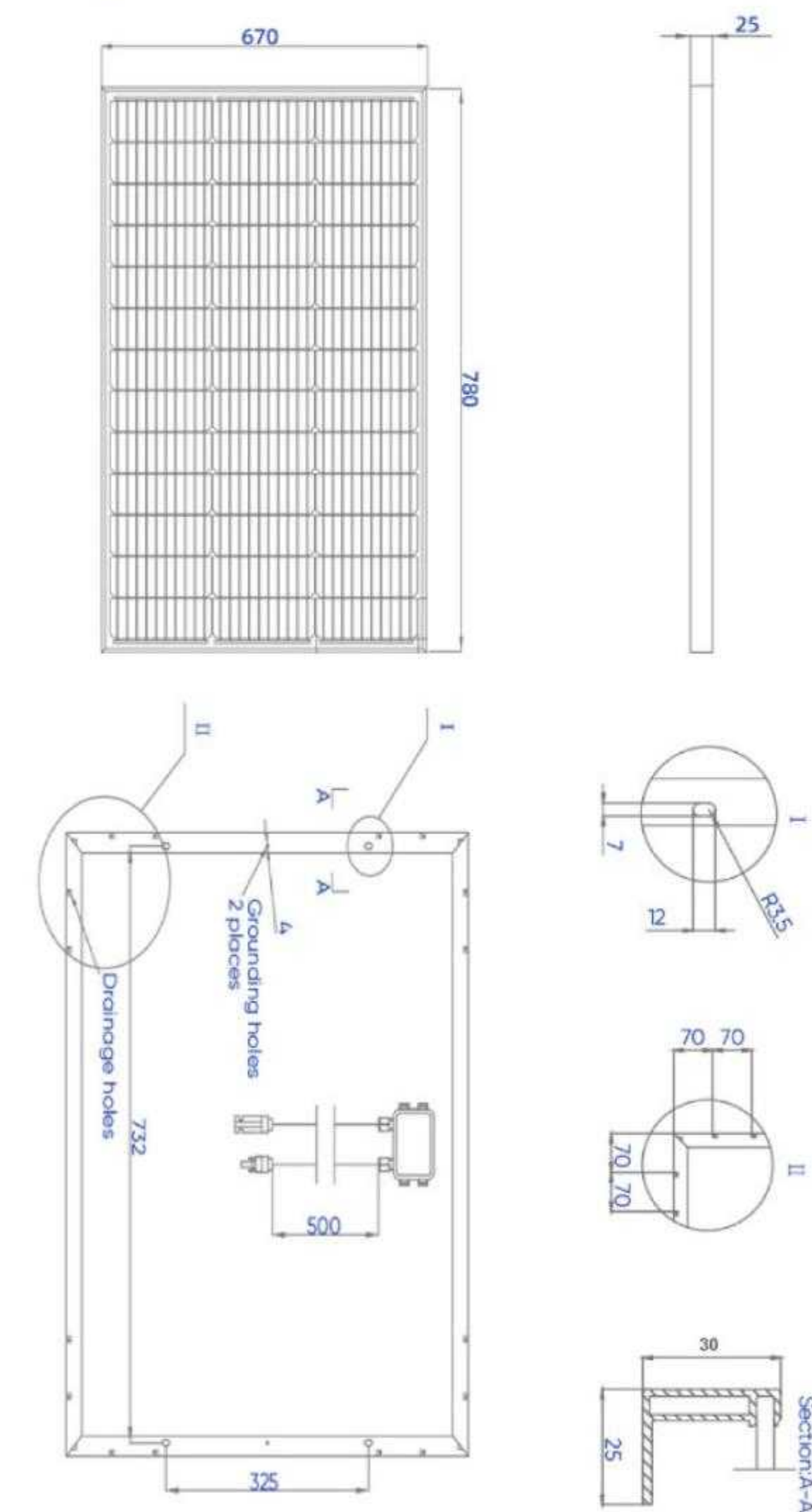
Monocrystalline PV Module

LINEAR PERFORMANCE WARRANTY



Product Parameter

Temperature Characteristics



Mechanical Specifications

External Dimensions	780×670×25mm
Weight	5.25kg
Solar Cells	Mono crystalline
Front Glass	3.2 mm tempered glass
Frame	Aluminum
Junction Box	IP67
Output Cables	50cm, length can be customized
Connector	MC4 Compatible
Mechanical Load	Front Side Max. 5400Pa, Rear Side Max. 2400Pa

Electrical Characteristics (STC)

Maximum Power- Pmax(W)	100
Open Circuit Voltage - Voc(V)	22.6
Short- Circuit Current - Isc(A)	5.35
Voltage at Pmax -Vmp(V)	19.59
Current at Pmax - Imp(A)	5.11
Module Efficiency -ηm(%)	19.13
Power Tolerance(W)	0, +4.99W
Maximum System Voltage(V)	1000Vdc (IEC / UL)
Maximum Series Fuse Rating (A)	10A

* STC : Irradiance 1000W/m², Cell Temperature 25°C, AM 1.5

Temperature Characteristics

Pmax Temperature Coefficient	-0.350%/°C
Voc Temperature Coefficient	-0.270%/°C
Isc Temperature Coefficient	+0.048%/°C
Operating Temperature	-40~+85°C
Nominal Operating Cell Temperature(NOCT)	45±2°C

Specifications included in this datasheet are subject to change without notice. Sunkit reserves the right of final interpretation.

Eternal Series

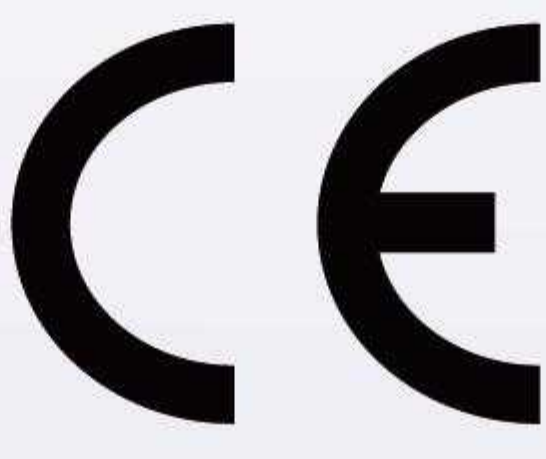
54H 430-450 Watt

MONO-FACIAL MODULE

Positive power tolerance of 0~+3%

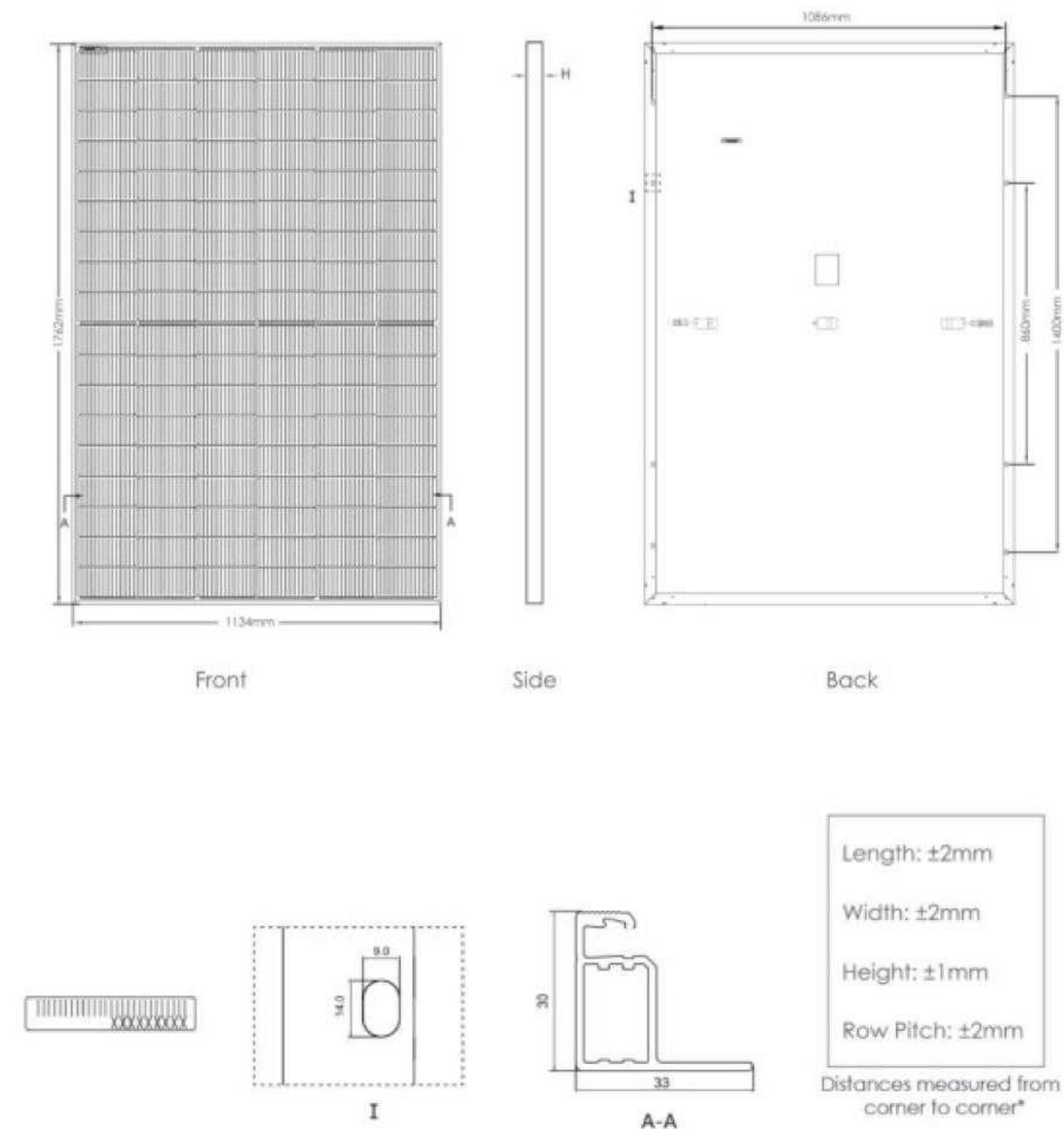


SK-430N-54H
SK-435N-54H
SK-440N-54H
SK-445N-54H
SK-450N-54H



Product Parameter

Engineering Drawings



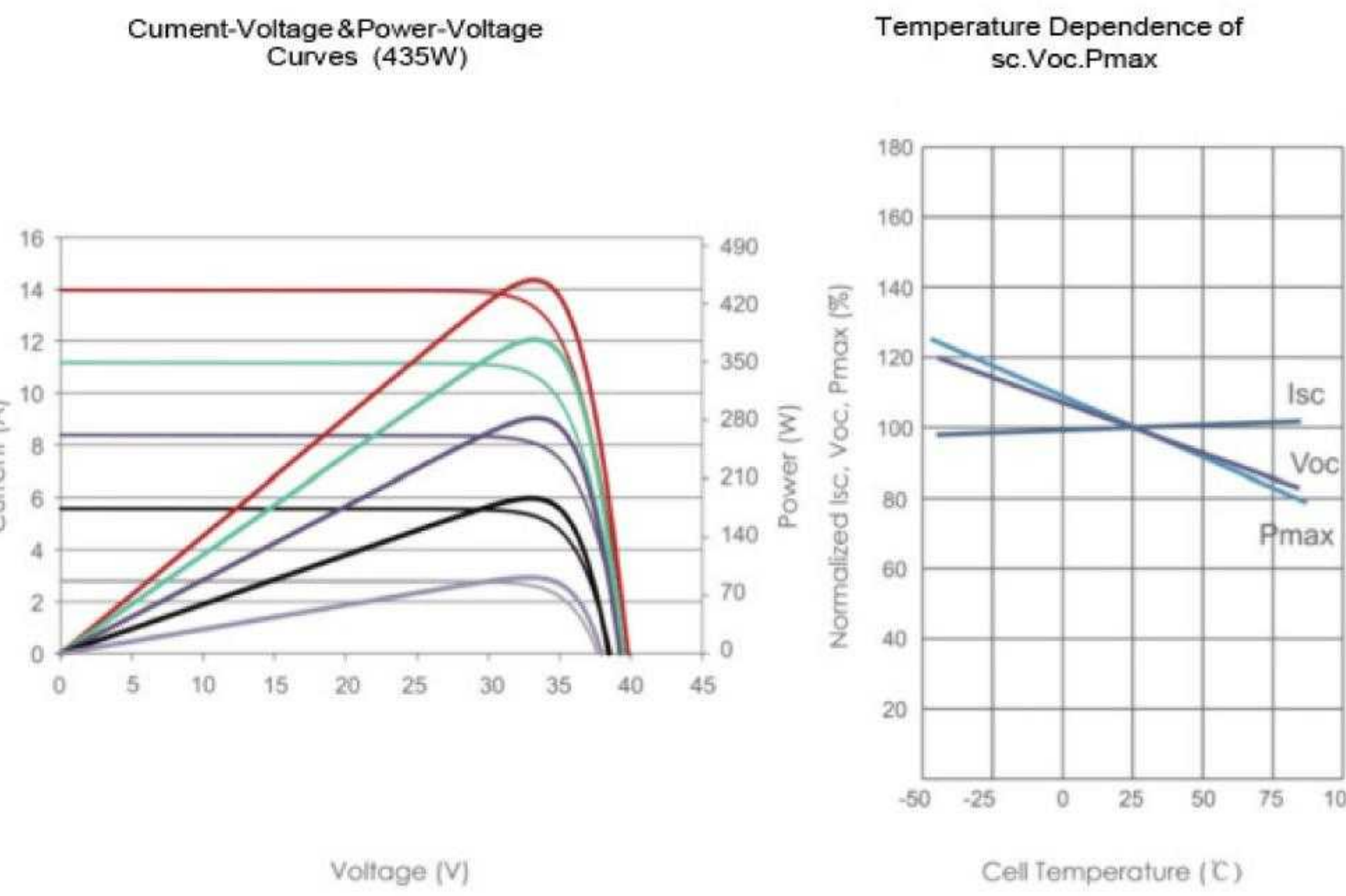
*For detailed sizes and tolerances, please consult the detailed module drawing.

Packaging Configuration

(Two pallets = One stack)

36pcs/pallets, 72pcs/stack, 936pcs/40HQ Container

Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	108(2×54)
Dimensions	1762×1134×30mm (69.36×44.65×1.18inch)
Weight	21kg (46.30lbs)
Front Glass	3.2mm Anti-Reflection Coating, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	P68 Rated
Output Cables	TUV 1×4.0mm (+): 400mm, (-): 200mm or Customized Length

SPECIFICATIONS

Module Type	SK-430N-54H		SK-435N-54H		SK-440N-54H		SK-445-54H		SK-450N-54H	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power(Pmax)	430Wp	320Wp	435Wp	323Wp	440Wp	327Wp	445Wp	331Wp	450Wp	335Wp
Maximum Power Voltage(Vmp)	32.18V	29.99V	32.38V	30.10V	32.59V	30.33V	32.81V	30.56V	33.02V	30.76V
Maximum Power Current (Imp)	13.37A	10.67A	13.43A	10.73A	13.51A	10.78A	13.57A	10.83A	13.63A	10.89A
Open-circuit Voltage(Voc)	38.75V	36.81V	38.95V	37.00V	39.16V	37.20V	39.38V	37.41V	39.59V	37.61V
Short-circuit Current (Isc)	13.66A	11.03A	13.73A	11.09A	13.80A	11.14A	13.86A	11.19A	13.93A	11.25A
Module Efficiency STC(%)	21.52%		21.77%		22.02%		22.27%		22.52%	
Operating Temperature(℃)	40℃~+85℃									
Maximum system voltage	1000/1500VDC(IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	0.29%/℃									
Temperature coefficients of Voc	0.25%/℃									
Temperature coefficients of Isc	0.045%/℃									
Nominal operating cell temperature(NOCT)	45±2℃									

*STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5
NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s

Specifications included in this datasheet are subject to change without notice. Sunkit reserves the right of final interpretation.

Eternal Series 66HD

730-750 Watt

BIFACIAL MODULE WITH DUAL GLASS

Positive power tolerance of 0~+3%

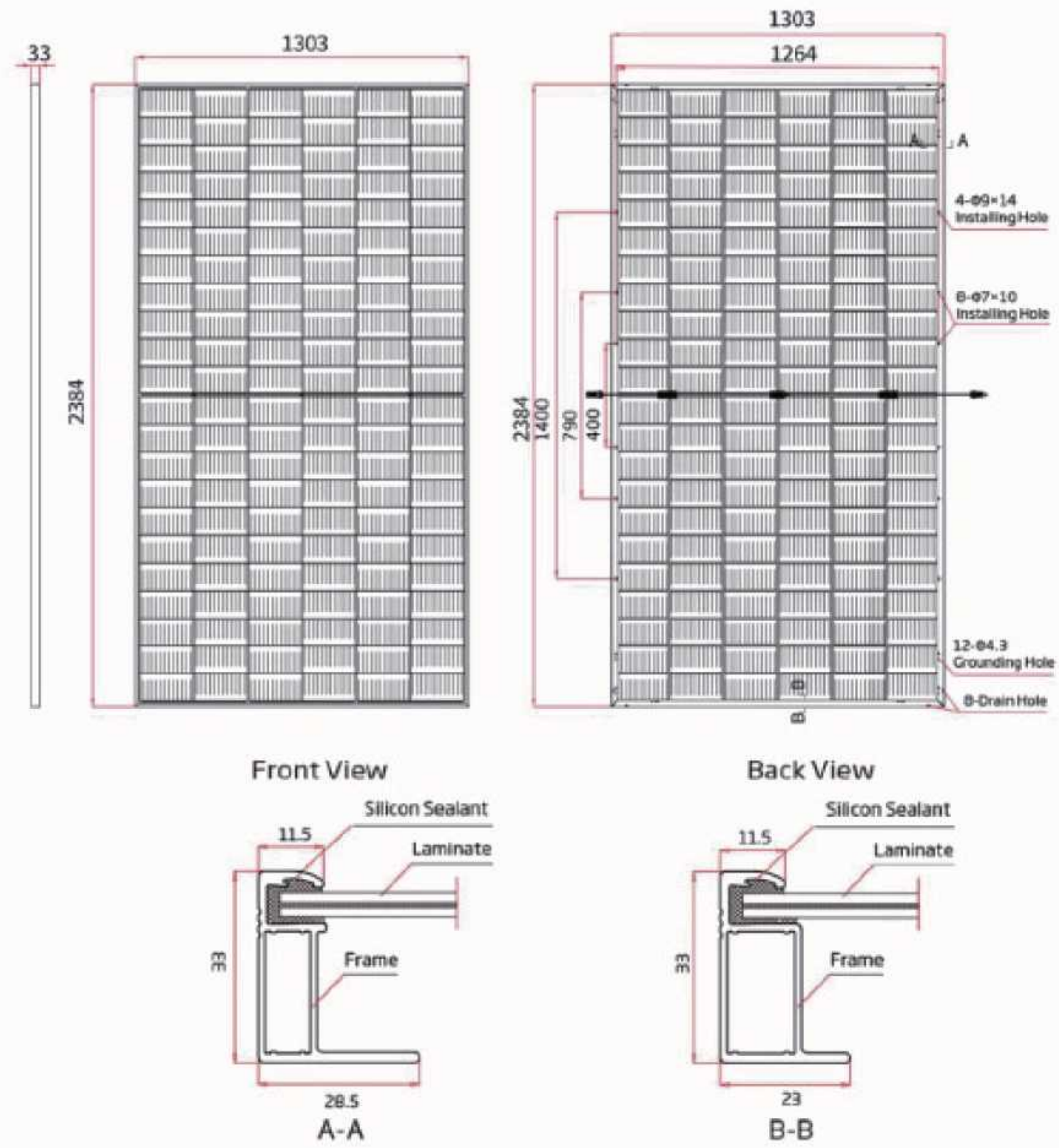


SK-730N-66H
SK-735N-66H
SK-740N-66H
SK-745N-66H
SK-750N-66H

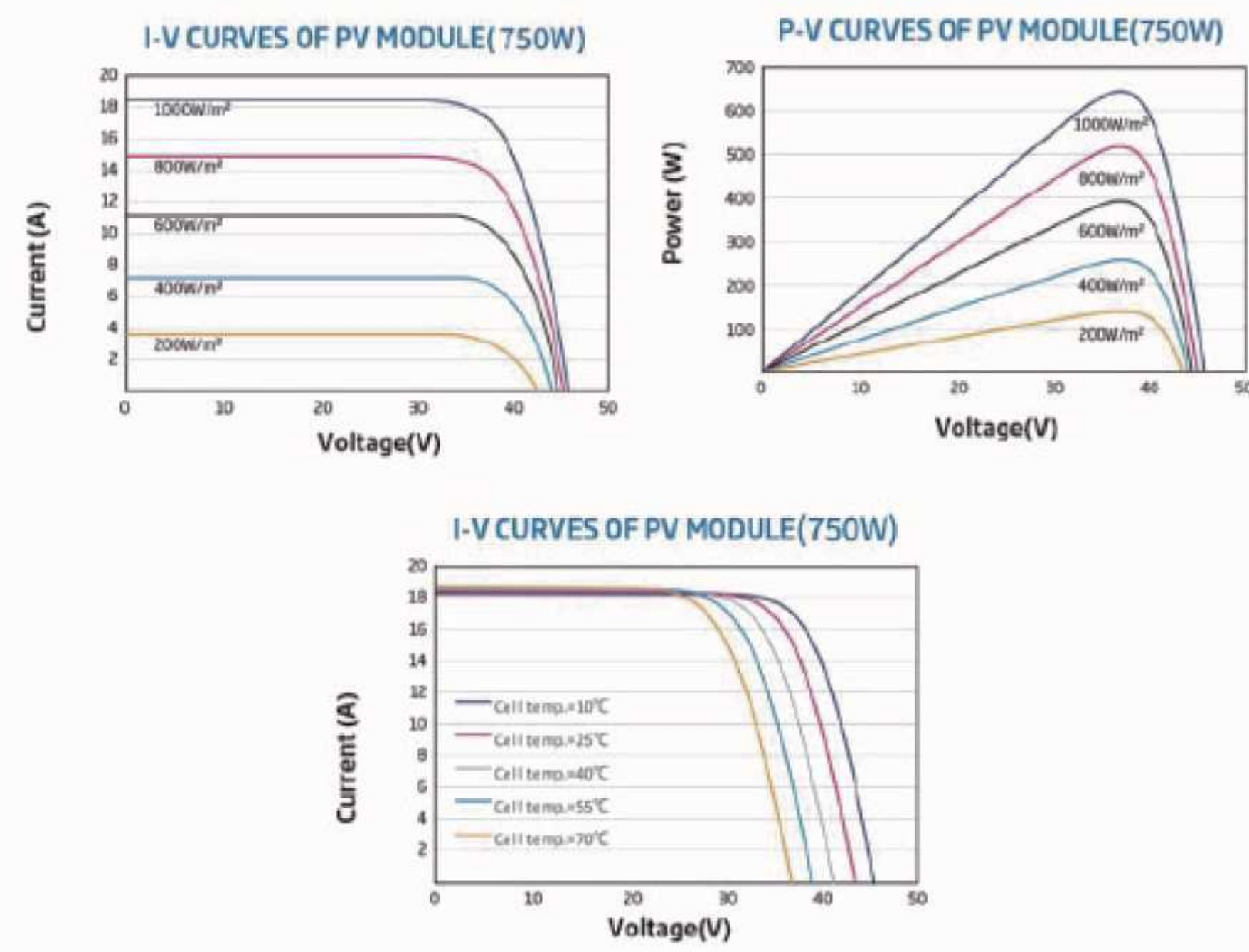


Product Parameter

Engineering Drawings



Electrical Performance & Temperature Dependence



Mechanical Characteristics

Cell Type	N type Mono-crystalline
No. of cells	132(6*22)
Dimensions	2384*1303*33mm
Weight	38.3kg
Front Glass	2.0mm, Anti-Reflection Coating
Back Glass	2.0mm, Heat Strengthened Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP68 Rated
Output Cables	TUV 1×4.0mm ² (+): 400mm, (-): 200mm or Customized Length

SPECIFICATIONS

Module Type	SK-730N-66HD		SK-735N-66HD		SK-740N-66HD		SK-745N-66HD		SK-750N-66HD	
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power Pmax(W)	730Wp	560Wp	735Wp	564Wp	740Wp	568Wp	745Wp	572Wp	750Wp	576Wp
Open Circuit Voltage Voc(V)	46.74V	44.79V	46.84V	44.89V	46.94V	44.99V	47.04V	45.09V	47.14V	45.19V
Maximum Power Voltage Vmp(V)	40.8V	39.08V	41.0V	39.28V	41.2V	39.48V	41.4V	39.68V	41.6V	39.88V
Maximum Power Current Imp(A)	17.90A	14.81A	17.93A	14.88A	17.97A	14.95A	18.00A	15.02A	18.04A	15.09A
Shoet Circuit Voltage Isc(A)	23.5A	14.33A	23.7A	14.36A	23.8A	14.39A	24.0A	14.42A	24.1A	14.44A
Module Efficiency STC (%)	23.5%		23.7%		23.8%		24.0%		24.1%	
Operating Temperature(°C)	-40°C~+85°C									
Maximum system voltage	1000/1500VDC (IEC)									
Maximum series fuse rating	25A									
Power tolerance	0~+3%									
Temperature coefficients of Pmax	-0.35%/°C									
Temperature coefficients of Voc	-0.28%/°C									
Temperature coefficients of Isc	0.048%/°C									
Nominal operating cell temperature (NOCT)	45±2°C									

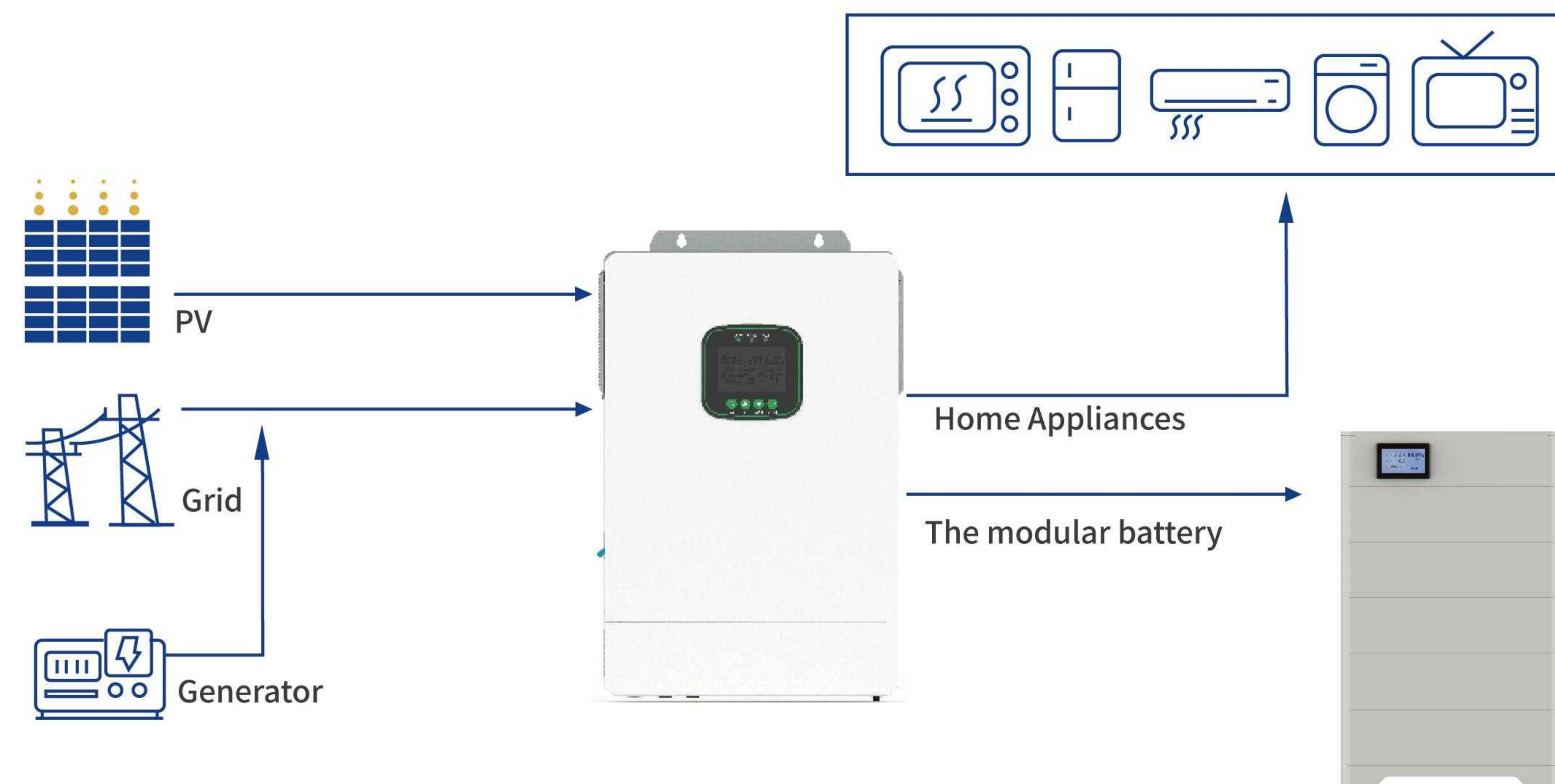
ELECTRICAL CHARACTERISTICS WITH DI ERENT POWER BIN (REFERENCE TO 5% & 10% BACKSIDE POWER GAIN)

Total Equivalent power	767Wp	803Wp	772Wp	809Wp	777Wp	814Wp	782Wp	820Wp	788Wp	825Wp
Maximum Power Voltage	40.8V	40.8V	41.0V	41.0V	41.2V	41.2V	44.4V	44.4V	47.14V	47.14V
Maximum Power Current	18.78A	19.68A	18.83A	19.72A	18.86A	19.76A	18.9A	19.8A	18.94A	19.84A
Open Circuit Voltage	46.74V	46.74V	46.84V	46.84V	46.94V	46.94V	47.04V	47.04V	47.14V	47.14V
Short Circuit Current	24.68A	25.85A	24.89A	26.07A	24.99A	26.18A	25.2A	26.4A	25.31A	26.51A

*STC: Irradiance 1000W/m² Cell Temperature 25°C AM=1.5
NOCT: Irradiance 800W/m² Ambient Temperature 20°C AM=1.5 Wind Speed 1m/s



SUNKIT HYBRID SYSTEM



Safe and reliable

- IP66 protection, C5-grade super corrosion resistance, able to withstand harsh environments.
- Intelligent air-cooled fan with IP68 protection, low temperature rise, long lifespan.

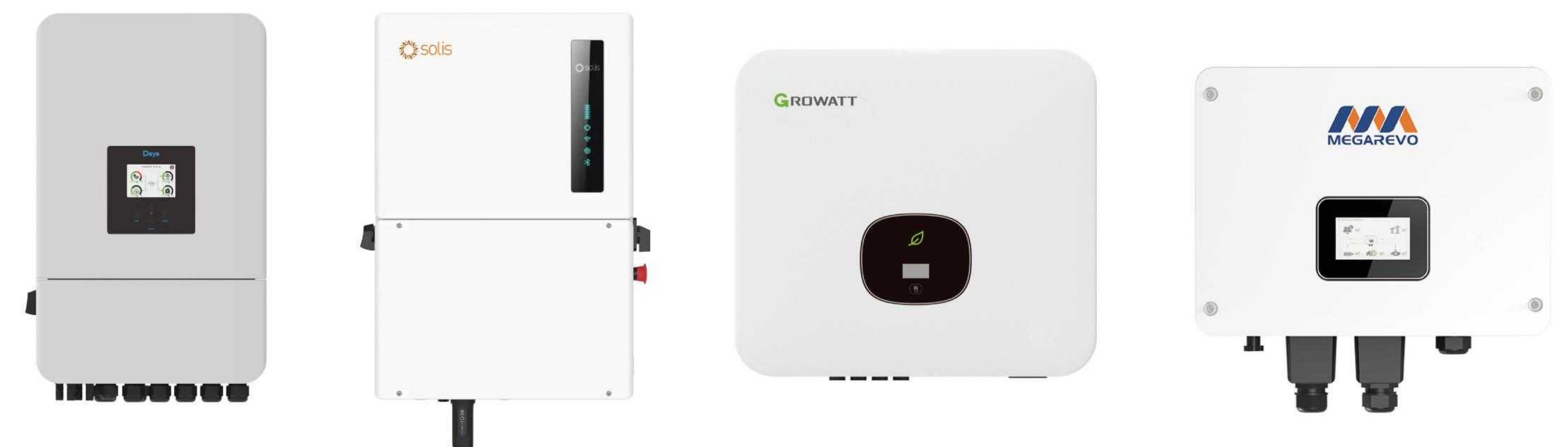
Intelligent Operations and Maintenance

- String-level IV scanning, accurately locate faults, ensure power generation.

High Efficiency and Returns

- Multiple MPPT design, improves power generation in complex application scenarios.
- Integrated PID nighttime recovery, 25 years of continuous high-efficiency power generation.
- Intelligent reactive power compensation to avoid penalties for low power factor

Other products



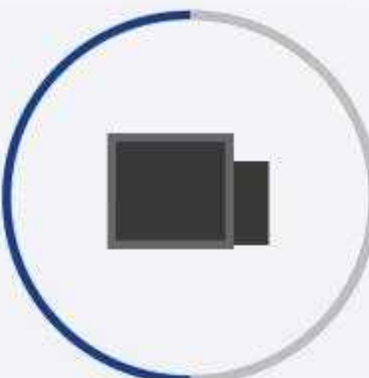
DEYE, MEGAREVO, GROWATT, Goodwe, Solis, Sigenergy, Solax, Ateess, AP system, Afore

Low Voltage
Single Phase Hybrid Inverter

3.0KW/4.0KW/5.0KW/6.0KW/8.0KW/10.0KW



EPL3000TL
EPL4000TL
EPL5000TL
EPL6000TL
EPL8000TL
EPL10KTL



Big lcd display



Excellent off grid ability



Power export limit



Wifi/GPRS/Lan communication optional

Product Parameter

Model	EPL3000TL	EPL4000TL	EPL5000TL	EPL6000TL	EPL8000TL	EPL10KTL
Max DC power	4500w	6000w	7500w	9000w	12000w	14000w
Max DC Voltage	500V					
MPPT voltage range	100-450Vd.c					
Rated PV Input Voltage	360V (100-500V)					
Full Load DC Voltage Range	200-425V					
PV Input Current						
Max.PV Isc						
Number of MPP trackers						
Strings per MPP tracker						
BATTERY INPUT						
Battery type	Lead-acid or Li-ion					
Battery voltage range	40-60V					
Max charge current	80A	100A	120A	150A	200A	210A
Max discharge current	80A	100A	120A	150A	200A	210A
Exernal Temperature Sensor	Yes					
Charging Curve	3 Stages/Equalization					
Charging Strategie for Li-Ion Batteries	Self-adaption to BMS					
OUTPUT(AC)						
Rated AC Output Active Power	3000W	4000W	5000W	6000W	8000W	10000W
Maximun AC Output Active Power	3300W	4400W	5500W	6600W	8800W	10500W
AC Output Rated Current	13.1A	17.4A	21.8A	26.2A	34.8A	43.5A
Max AC Output Current	15A	20A	24.2A	28.8A	38.5A	45.6A
Max Continuous AC Passthrough						
Peak Power(off grid)	2 time of rated power, 10s					
Power Factor Adjustment Range	0.8 leading to 0.8 lagging					
Power Factor	1					
Output Frequency and Voltage	50/60HZ; L/N/PE 220/230Vac					
Grid Type	single phase					
Total Harmonic Distortion(THD)	<0.5%In					
EFFICIENCY						
Max Efficiency	97.60%				97.80%	
Euro Efficiency	96.50%				96.60%	
MPPT Efficiency	99.90%					
PROTECTION						
Interrated	Anti-islanding protection, PV String Input Reverse Polarity Protection					
	Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection					
	Output Shorted Protection, Surge Protection					
Over Voltage Category	DC Type II/AC Type III					
General Data						
Operation Temperature Range	-40-60℃, >45℃ Derating					
Cooling	Smart Cooling					
Noise	≤30dB					
Communication with BMS	RS485; CAN					
Weight	25KG					
Dimension(W/H/D)(mm)	520*420*180					
Protection Degree	IP65					
Installation Style	Wall-mounted					
Warranty	Standard 5 years; 7/10 years optional					

CQC,VDE-AR-N4105,IEC61727,IEC62116,VDE0124-AR-N0124, EN50549, IEC62109, IEC62477

Specifications included in this datasheetare subject to change without notice.sunkit reserves the right of finalinterpretation.

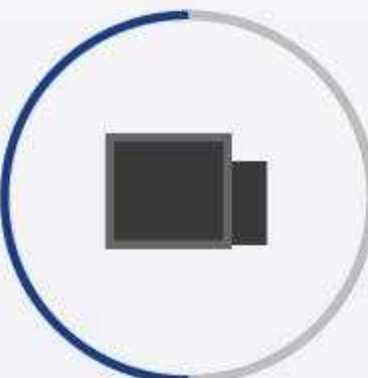
HYBRID INVERTER

SKT series three-phase

SKT48-8K5-P3/10K5-P3/12K5-P3



SKT48-8K5-P3
SKT48-10K5-P3
SKT48-12K5-P3



Big lcd display



Excellent off grid ability



Power export limit



Wifi/GPRS/Lan communication optional

Product Parameter

MODEL	SKT48-8K5-P3	SKT48-10K5-P3	SKT48-12K5-P3
INVERTER OUTPUT			
Rated Output Power (W)	8500	10500	12500
Rated Output Power (VA)	8500	10500	12500
Maximum Peak Power (W)	17000	21000	25000
Load Capacity with Motors(HP)	5	6	6
Rated AC Output	400 VAC Three phase, 50 / 60Hz		
Output Voltage Waveform	Pure Sine Wave		
Inverter and Bypass Switching Time	10ms (typical)		
Maximum Battery Inverter Efficiency	≥93%		
Overload Protection	102%~110%, 5min; 110%~125%, 10s; >125%, 5s		
BATTERY			
Battery Type	Lithium / Lead-acid / User Defined		
Rated Battery Voltage(VDC)	48		
Battery Voltage Range(VDC)	40~60		
Max.Mains Charging Current(A)	100	120	120
Max.Hybrid Charging Current(A)	180	220	260
Charging current error(ADC)	±3		
Charging Short Circuit protection	Blown Fuse		
PV INPUT			
MPPT Quantity	2		
Max. PV array power(W)	6000+6000	7500+7500	9000+9000
Max. PV input current(A)	22+22		
Max. Open Circuit Voltage(VDC)	800		
MPPT Voltage Range(VDC)	200~650		
MPPT Tracking Efficiency	99.9%		
MAINS INPUT			
Input Voltage Range(VAC)	Phase Voltage170~280, Line Voltage305~485		
Frequency Range(Hz)	50/60±0.3		
Output Short Circuit Protection	Circuit breaker		
Bypass Overload Current(A)	63		
SPECIFICATIONS			
Dimensions (D*W*H)mm	130*445*630		
Weight(kg)	27		
Classification of waterproof	IP20		
Operating Temperature Range(°C)	-10~55		
Storage Temperature Range(°C)	-25~60		
Noise(dB)	<60		
Heat Dissipation	Forced air cooling (variable speed of fan)		
COMMUNICATION			
Embedded interface	RS485/CAN/USB/Dry contact		
External module	WIFI/GPRS		
CERTIFICATION			
Safety	CE(IEC62109-1)		
EMC	EN61000		

Note: Above data are subject to change without notice. Special voltage could be customized.

US-Standard Hybrid Inverter

SKT4836M80-300/SPI4836M80-300P
SKT4865M150-300/SPI4865M150-300P



SKT4836M80-300
SKT4836M80-300P
SKT4865M150-300
SKT4865M150-300P



Big lcd display



Excellent off grid ability



Power export limit



Wifi/GPRS/Lan communication optional

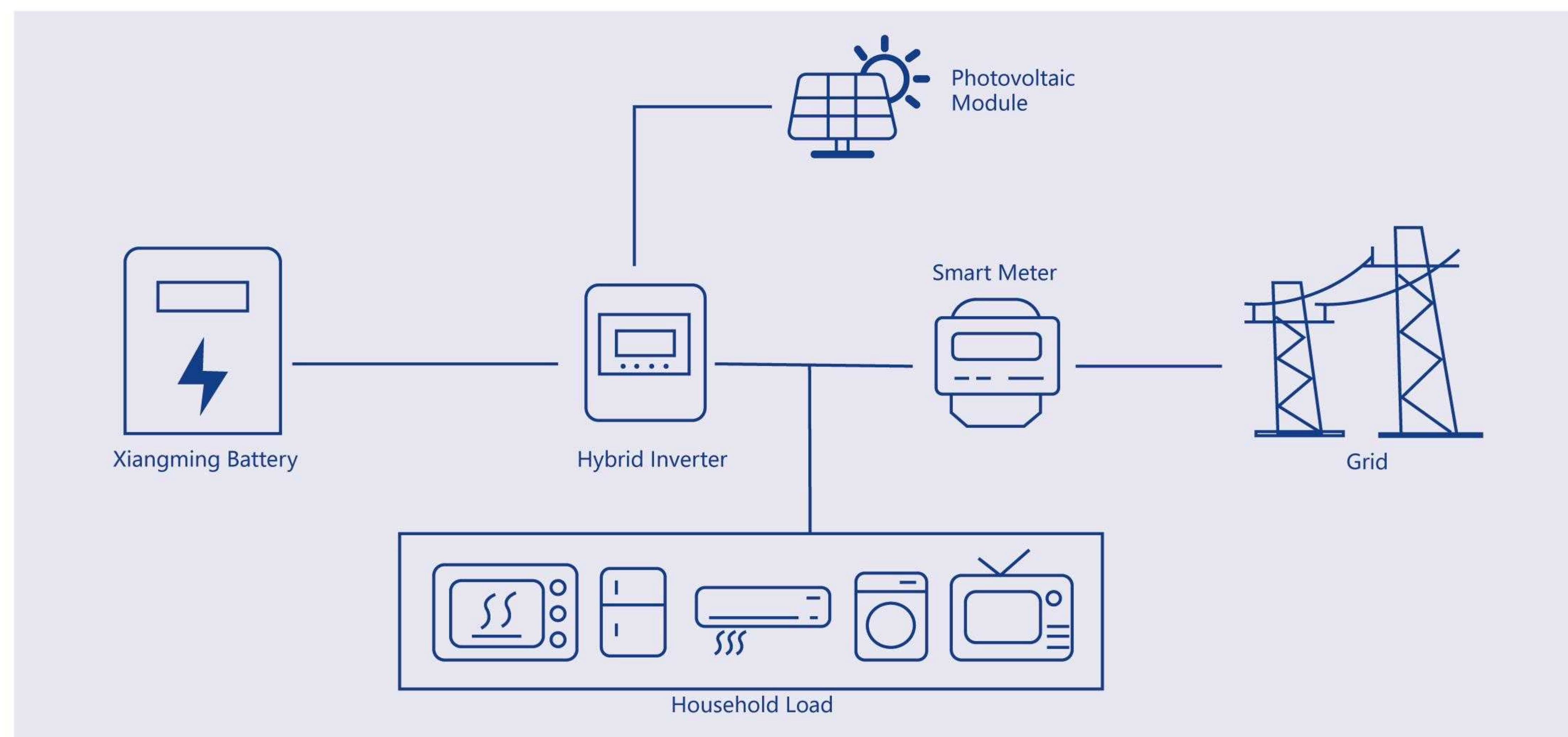
Product Parameter

Model	SKT4836M80-300/SKT4836M80-300P	SKT4865M150-300/SKT4865M150-300P
Parallel mode		
Permitted parallel number	NO/1~6	
AC mode		
Rated input voltage	120Vac ±5%	
Input voltage range	(90Vac~140Vac) ±2%	
Frequency	50Hz/60Hz (Auto detection)	
Frequency Range	47±0.3Hz~55±0.3Hz (50Hz); 57±0.3Hz~65±0.3Hz (60Hz);	
Overload/short circuit protection	Circuit breaker	
Efficiency	>95%	
Conversion time (bypass and inverter)	10ms (typical)	
AC reverse protection	Yes	
Maximum bypass overload current	40A	60A
Inverter mode		
Output voltage waveform	Pure sine wave	
Rated output power (VA/W)	3600VA/3600W	6500VA/6500W
Power factor	1	
Rated output voltage (Vac)	120Vac	
Output voltage error	±5%	
Output frequency range (Hz)	50Hz±0.3Hz/60Hz±0.3Hz	
Maximum Efficiency	>91%	
Overload protection	(102% < load <110%) ±10%: report error and turn off the output after 5 minutes; (110% < load < 125%) ± 10%: report error and turn off the output after 10 seconds; Load >125% ±10%: report error and turn off the output after 5 seconds;	
Peak power	7200VA	12000VA
Loaded motor capability	2HP	5HP
Output short circuit protection	Circuit breaker	
Bypass circuit breaker specification	40A	63A
Rated battery input voltage	48V (Minimum starting voltage 44V)	
Battery voltage range	40.0Vdc~60Vdc±0.6Vdc (Undervoltage alarm/shutdown voltage/overvoltage alarm /overvoltage recovery... settable on LCD screen)	
Power saving mode self-consumption	Enter power-saving mode when load ≤ 50W	
AC charging		
Battery type	Lead acid or lithium battery	
Maximum charge current(can be set)	40A	120A
Charge current error	±5Adc	
Charge voltage range	40 ~60Vdc	
Short circuit protection	Circuit breaker and blown fuse	
Circuit breaker specifications	40A	63A
PV charging		
MPPT channels	2	
Maximum PV open circuit voltage	300Vdc	
PV operating voltage range	120Vdc~300Vdc	
MPPT voltage range	90Vdc~260Vdc	
Battery voltage range	40-60Vdc	
Maximum PV input power	4500W	4500W+4500W
Maximum PV input current	27A	22A+22A
Charging short circuit protection	Blown fuse	
Wiring protection	Reverse polarity protection	
Hybrid Max charging current specifications(AC+PV)		
Max charging current(can be set)	0-80A	0-150A
Certified specifications		
Certification	UL1741	
EMC certification level	FCC15 Class B	
Operating temperature range	-10°C to 55°C(>45 °C derating operation)	
Storage temperature range	-25°C ~60°C	
Humidity range	5% to 95% (Conformal coating protection)	
Noise	≤60dB	
Heat dissipation	Forced air cooling, variable speed of fan	
Communication interface	USB/RS485(WiFi/GPRS)/ Dry node control	
Size (L*W*D)	428x280x110mm	540x350x120mm
Net Weight (kg)	7.8	18.5

Energy storage

HOME STORAGE SOLUTION

Home storage refers to the installation of a system with energy storage batteries as the core in residential buildings for storing electric energy and intelligent collaborative management with home energy (such as photovoltaic solar energy) and power grids. Its essence is to build a micro, intelligent, independent home energy network.

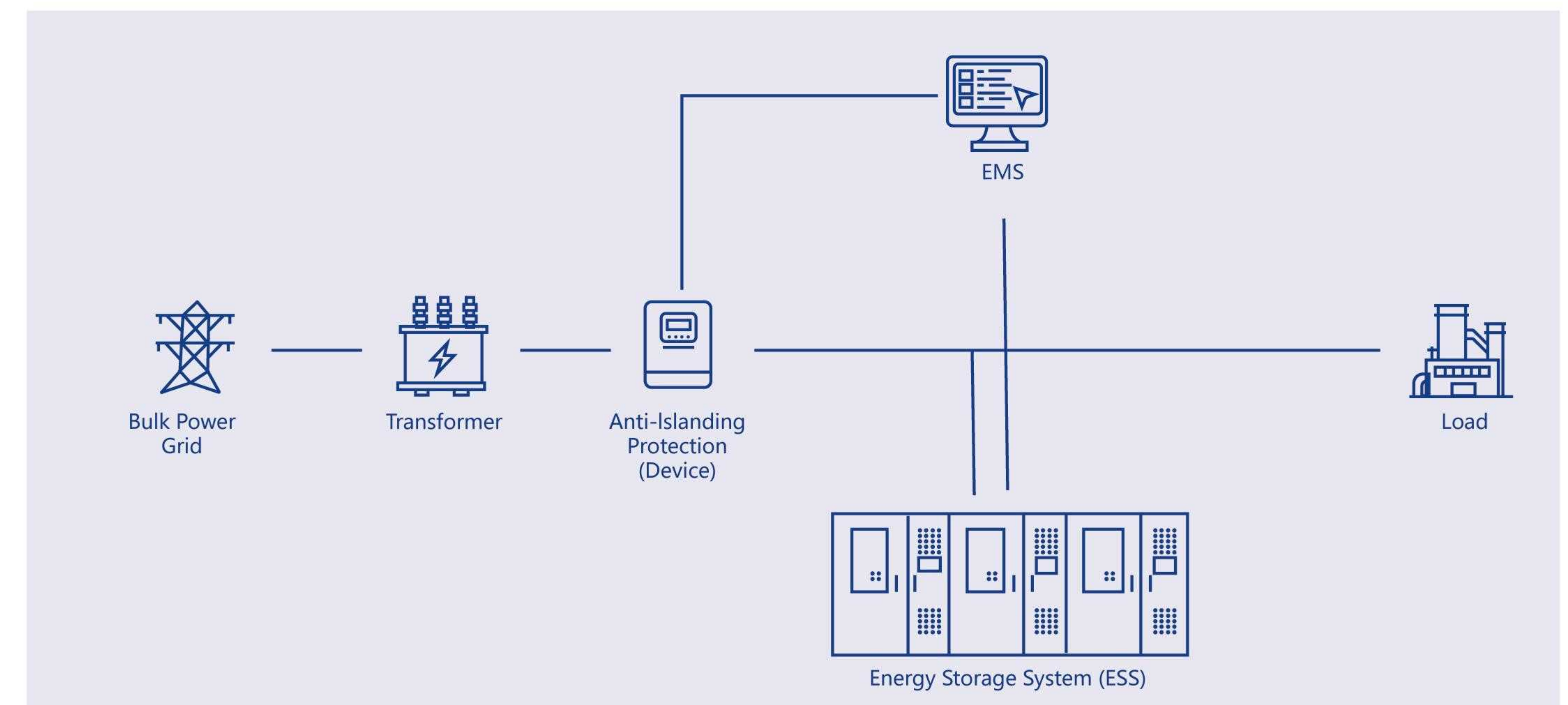


Customer value

Use photovoltaics to generate electricity during the day, give priority to household use, and store excess electric energy in batteries to avoid waste

Switch to energy storage power supply at night or during peak electricity price hours, and the cost of purchasing electricity from the grid

LARGE-SCALE CENTRALIZED ENERGY STORAGE SOLUTIONS



Large-scale centralized energy storage projects aim to store excess energy through centralized energy storage facilities and release it when energy demand peaks to optimize the stability and reliability of energy supply. Such projects generally use large-scale battery systems or other energy storage technologies, combined with renewable energy generation (such as wind energy, solar energy, etc.) to form an effective energy dispatch system. With the global attention to the transformation of energy structure, new energy storage projects are considered to be an important means to improve energy utilization efficiency and promote green and low-carbon strategies.

Floor-standing
Rechargeable Lithium iron phosphate battery
51.2V 314Ah



TUV NORD Type Tested SGS TÜV SAAR CE MSDS UN38.3

Product Parameter

产品型号 model	SKT-314512		
产品类型 product type	可充放磷酸铁锂电池 Rechargeable Lithium iron phosphate battery		
额定电压 Rated voltage	51.2V		
额定容量 Rated capacity	314AH		
电池电量 Battery level	16.077KWh		
电池类型 Battery type	LFP		
循环次数 Number of cycles	8000	(80%DOD, 0.5C, 25℃)	8000 cycles
使用寿命 Service life	10 年/ 10 years		
最大充电电压 Maximum charging voltage	57.6V		
过放电压 Overdischarge voltage	43.2V		
最大充电电流 Maximum charging current	100A		
峰值充电电流, Peak charging current	110A(3s)		
最大放电电流 Maximum discharge current	200A		
峰值放电电流 Peak discharge current	220A(3s)		
毛重 Gross weight	137kg		
包装尺寸 Package size(长Wx 宽Hx 高D)	850*550*270mm		
通讯接口 Communication interface	RS232/ CAN/ RS485(WIFI/ BT optional)		
储存条件 Storage conditions	1 个月 1 month-20℃~45℃ 3 个月 3 month-20℃~35℃ 6 个月 6 month-20℃~25℃		
充电温度 Charge Temperature	(0℃~60℃)		
放电温度 discharge temperature	(-20℃~60℃)		
冷却方式 Cooling method	自然冷却/Natural Cooling		
安装方式 Installation method	落地式 Floor standing		
防护等级 protection grade	IP30		
海运 sea transportation	MSDS. UN38.3		
安规, Safety regulations	CE , FCC , ROHS		

Wall-mounted battery
51.2V 100AH/200AH
SK-WM-5kwh/SK-WM-10kwh



SK-WM-5kwh
SK-WM-10kwh



MSDS

UN38.3

Product Parameter

Product Specifications		
Model	SK-WM-5kwh	SK-WM-10kwh
Voltage	51.2V	
Capacity	100Ah	200Ah
Battery Cell	3.2V 100Ah Pirsmatic Battery Cell	
Configuration	16S1P	16S2P
Parallel Capacity	Yes,15Units Maximum	
Max.Charge Current	100A	
Max.Discharge Current	100A	
Discharge Cut-Off Protect Voltage	43.2V	
Charge Cut-Off Protect Voltage	58.4V	
Cycle Life	6000 Cycles @80% DOD	
Communication Port	CAN,RS485,RS232	
L*W*H(mm)	680*485*180(220)mm	
Weight(KG)	72Kg±1Kg	106Kg±1Kg
Discharge Temperature(°C)	-20-50°C	
Charge Temperature(°C)	0-55°C	
Lithium Battery Standard	UL1642,IEC62619,UN38.3,ROHS,CE-EMC	

Product Image



Specifications included in this datasheetare subject to change without notice.sunkit reserves the right of finalinterpretation.

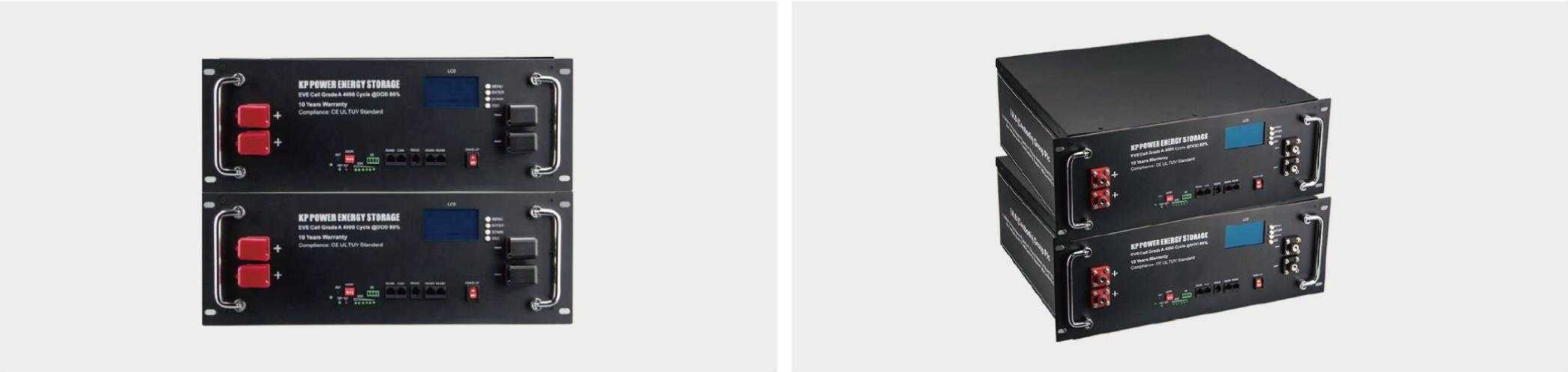
Rack-mounted battery
48V 100AH/200AH
SK- RM-5kwh/SK-RM-10kwh



Product Parameter

Product Specifications		
Model	SK-RM-5kwh	SK-RM-10kwh
Nominal Voltage	48V	
Nominal Capacity	100Ah	200Ah
Battery Cell	3.2V 100Ah Pismatic Battery Cell	
Parallel Capacity	yes,15units maximum	
Max.Charging Current	100A	
Max.Discharging Current	100A	
Charging Voltage	53.5~54.5	
Discharge Cut-Off Voltage	41V	
Design life	15+Years (25°C/77°F)	
Cycle life	>6000 Cycles,25°C	
Communication Port	CAN,RS485,RS232	
Size(L*W*H)	460*442*180mm	680*442*180mm
Weight	46Kg+1Kg	85Kg+1Kg
Operation Temperature Range	Charge:0~55°C/Discharge: -20~55°C	
Shelf Temperature	10~50°C	

Product Image



PV-ESS integrated cabinet
51.2V 280AH
SKT-100K



SKT-100K

Product Parameter

型号 MODEL	SKT-100K
产品规格 Product	HV100K
额定电压 Nominal Voltage	358.4V
额定容量 Nominal Capacity	280AH
柜体尺寸 Cabinet Size(mm)	1250*1245*2175
整机重量 Weight(kg)	1260KG
最大充/放电功率 Charge/discharge power MAX	140A
冷却方式 Cooling method	Air-cooled
防护等级 Protection class	IP55
消防类型 Type of firefighting	Aerosol
电池侧 规格 BATTERIE SPECIFICATIONS	PARAMETER
电芯类型 Battery Types	51.2V-280AH
额定电量 Nominal Capacity (KWh)	100KWh
推荐工作电流 Recommend Charge/Discharge Current (A)	100
最大工作电流 Max. Charge/Discharge Current(A)	140
通讯方式 Communicaiton	RS485/CAN
工作温度 Working Temperature	0°C~50°C Charge -10°C ~50°C Discharge
存储及运输温度 Transport or Storage Temperature Range	-20°C~60°C
产品认证 Certification	CE/IEC/UL/UN38.3/MSDS
设计寿命 Design Life	10years+
产品循环寿命 Cycle Life	(0.5C/0.5C-80% D0D) >6000 times
冷却方式 Cooling method	Air-cooled
证书 Certification	UN38.3/MSDS/ROHS
交流侧 规格 AC SPECIFICATIONS	PARAMETER
额定功率 Rating	50KW
过载能力 Overloaded	110%
额定交流电压 Rated AC Voltage	400V
额定频率 Rated frequency	50/60Hz
通讯方式 Communicaiton	Ethernet/Modbus/TCP/IP
逆变器类型 Inverter Type	Deye/Solis/Megarevo/Other

