

CHINA MACHINERY ENGINEERING SUZHOU CO.,LTD

中设（苏州）机械设备工程有限公司

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<http://www.cmecnewenergy.com/>

Atlas of New Energy Products

New Energy, Starting a New Life of High Performance and Consumption

新能源 ▶ 开启高能低耗新生活

Company Profile ▶▶▶

China Machinery Engineering Corporation (CMEC), a core subsidiary of SINOMACH, is among the world's top 500 companies.

Founded in 1978, CMEC is China's first engineering & trade company. Through over 40 years of development, CMEC has become an international corporation with engineering contracting and industrial development as its core divisions. It has been underpinned by a full industry chain of trade, design, survey, logistics, research and development. It has offered "one-stop" customized solutions for integrated regional development and various types of engineering projects, covering pre-planning, design, investment, financing, construction, operation and maintenance.

What's more, We have committed ourselves to aide in the development and promotion of clean energy.As always, our main purpose is continuous growth and become part of the leading solar suppliers in the industry.

Our Company is dedicated to innovating and promoting the integration of "photovoltaic, energy storage and charging", that's to say "photovoltaic + energy storage + charging" mode, which is an ideal solution to solve the unbalanced development between new energy automobiles and charging piles. By means of coordinated power supply of energy storage power station and power grid, not only peak-load shifting can be realized, but also the problems such as intermittency and instability of photovoltaic power etc. can be effectively solved .

Product and Service ▶▶▶



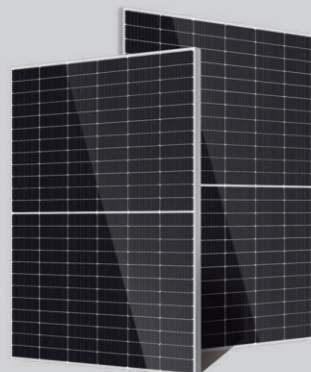
ZY415M10PH-108

Monocrystalline Half Black Model
400-420W Output power
0~+5W Power tolerance



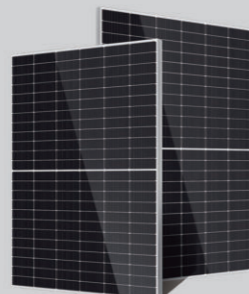
M10 All black single glass component 410-550Wp

Battery cell quantity: 54/60/72 (182 batteries)
Black backplane, black frame
Component dimensions: 1722x1134x30 - 2278*1135*35mm
Component weight: 21.2-28.6kg



Multiple dimensions and models customized components 20-380Wp

Battery cell quantity: 4-72 (158/166/182/210 batteries)
Black/white backplane, black/white frame
Component dimensions: 326x370x25 - 1986*992*35mm
Component weight: 1.5-21.2kg



M10 Regular single glass component 410-550Wp

Battery cell quantity: 54/60/72 (182 batteries)
White backplane, silver frame
Component dimensions: 1722x1134x30 - 2278*1135*35mm
Component weight: 21.2-28.6kg

M10 Regular double glass component 410-550Wp

Battery cell quantity: 54/60/72 (182 batteries)
No backplane, silver frame
Component dimensions: 1722x1134x30 - 2278*1135*35mm
Component weight: 24-31.8kg



Electrical Characteristics

Module Type		RD400M10H	RD405M10H	RD410M10H	RD415M10H	RD420M10H
Working Conditions						
Maximum Power at STC/NMOT (Pmax)	W	400	298	405	302	410
Optimum Operating Voltage (Vmp)	V	31.1	28.5	31.30	31.5	31.5
Optimum Operating Current (Imp)	A	12.86	10.45	12.94	13.02	13.02
Open Circuit Voltage (Voc) 3%	V	36.5	3.5	36.7	36.9	36.9
Short Circuit Current (Isc) +3%	A	13.53	11.38	13.62	13.71	11.54
Module Efficiency	%	20.5	20.7	20.9	21.2	21.5
Maximum System Voltage	V	1500(dc)				
Maximum Series Fuse Rating	A	25				
Operating Module Temperature	C	-40~+85				
Power Tolerance	W	0/+5				

STC: Irradiance 1000w/m², Cell Temperature 25C, Atmospheric quality Am1.5
NMOT: The irradiance is 800W/m, the ambient temperature is 20 degrees, and the wind speed is 1m/s

Electrical Characteristics

Solar Cell(No.of cells)	Mono 182x182	54pcs
Dimensions	1722x1134x30mm(±2mm)	
Weight	21.2kg(±3%)	
Front Glass	3.2mm low-iron tempered glass	
Frame	6063-T5 anodized aluminum alloy	
Junction Box	IP68 rated(3bypass-diodes)	
Output Cables	4mm ² /线长2x350mm or (Customized length)	
Connectors	MC4(IP68)	
Maximum Load Capacity	5400Pa/2400Pa	
Safety Rate	Class II (Tue)	

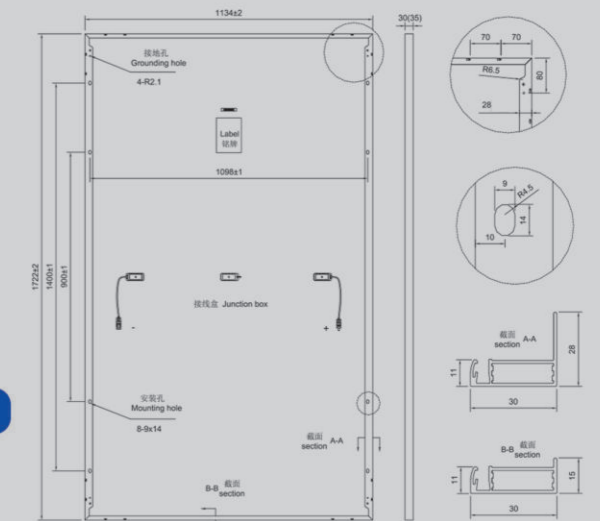
Electrical Characteristics

Temperature Coefficient of Pmax	[%/C]	-0.37
Temperature Coefficient of Voc	β[%/C]	-0.30
Temperature Coefficient of Isc	α[%/C]	+0.046
Nominal Module Operating Temperature	NMOT	44°C±2°C

Electrical Characteristics

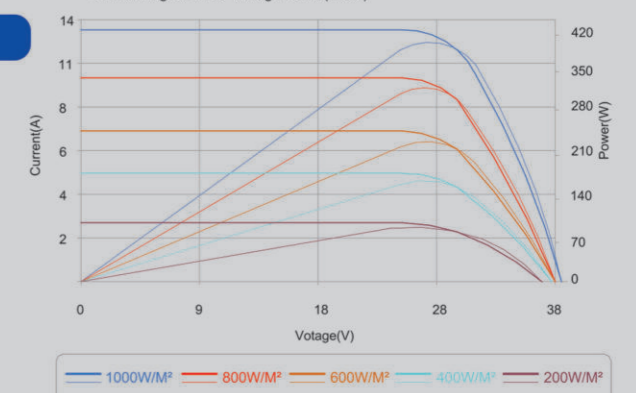
Container	20'CP		40'HQ	
	30mm	35mm	30mm	35mm
Frame	30mm	35mm	30mm	35mm
Piece per pallet	62	57	36	31
Pallets per container	6	6	26	26
Pieces per container	372	342	936	806
Domestic Transport				
9.6米平板车装货数量	30边框	36pcs/托-20托/车-720pcs/车		
13.5米平板车装货数量	30边框	36pcs/托-28托/车-1008pcs/车		
17.5米平板车装货数量	30边框	36pcs/托-48托/车-1728pcs/车		

装配图纸 Assembly Drawing (Unit:mm)



I-V曲线图 IV-Curves

电流-电压 & 功率-电压曲线 (415w)
Curr-Voltage & Power-Voltage Curve (415w)



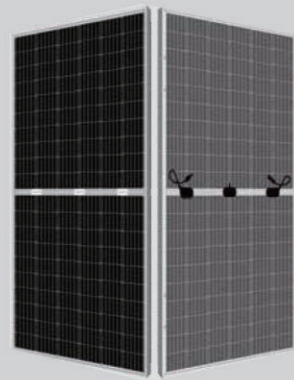
Poly Solar Panel



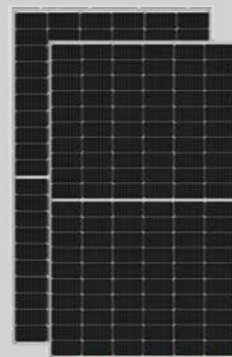
270W-280W
Weight/No of cells:17KG±3%60 (6*10)
Dimensions:1640-990-35mm



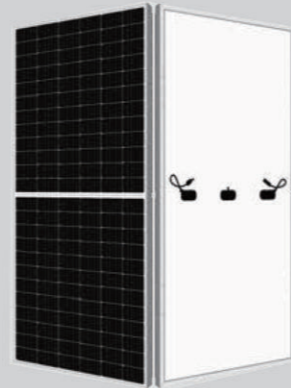
320W-340W
Weight/No of cells:25KG±3%72 (6*12)
Dimensions:1950*992*45mm



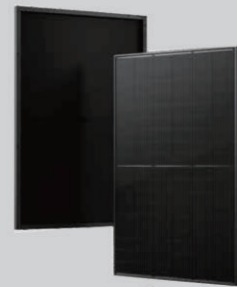
590W-610W
Weight/No of cells:31.4KG±3%144 (6*24)
Dimensions:2172*1303*35mm



540W-550W
Weight/No of cells:28.6KG±3%144 (6*24)
Dimensions:2279*1134*35mm



440W-460W
Weight/No of cells:28.6KG±3%144 (6*24)
Dimensions:2279±2mm*1134±2mm*35±1mm



Component characteristics

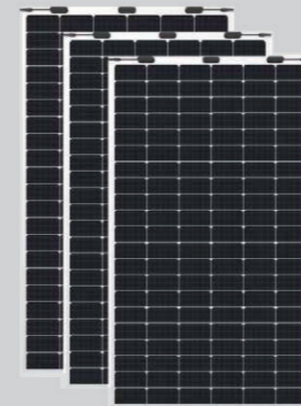
- The whole assembly has passed the certification of 2400pa wind load and 5400pasnowload.
- First year attenuation: 2%; Linear attenuation: 0.55%.
- The overlapping welding technology independently developed by JC can effectivelyeliminate the battery gap and improve Component power(up to 21.48% for single-sided components) .
- 12-year product warranty; Five-year power warranty.
- 9 main gate technology reduces the distance between main gate and thin gate, effectively reducing current. Loss, improve the output power of components.
- 9 The main grid assembly adopts special round wire welding tape, which can effectivelyavoid the broken grid of the assembly,And the problem of cracked fragments.



Solar Cablecontroller One Stop Service

Component characteristics

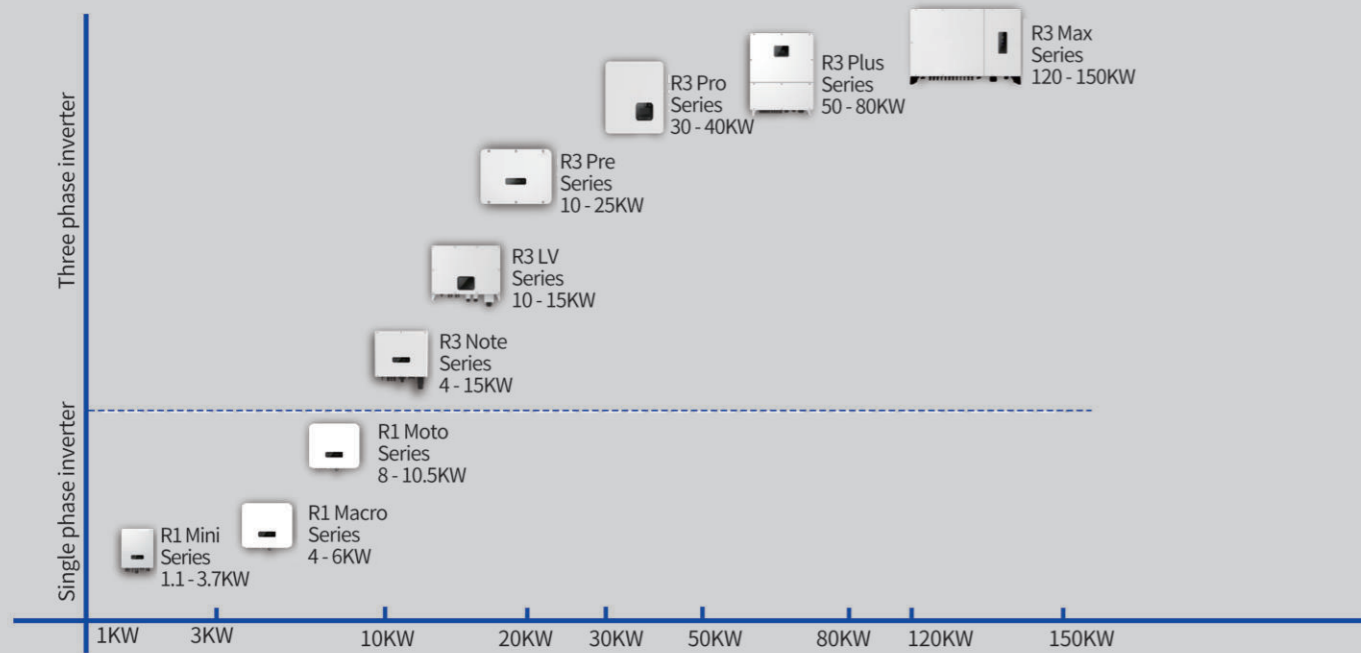
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Output Power	Working Voltage	Size	Package	GROSSWEIGHT
100W	18V	1080*540*3MM	110*565*28MM	3KG
140W	18V	1090*700*3MM	110*720*35MM	3.8KG
200W	18V	1585*700*3MM	1605*720*35MM	6KG
220 ETFE	18V	1585*700*3MM	1605*720*35MM	6KG



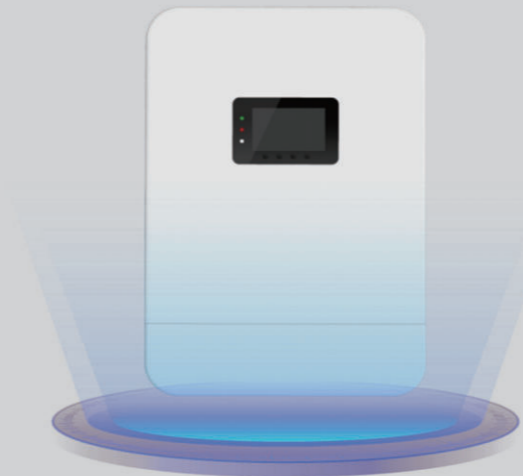
Poly Solar Panel >>>



<p>Efficient</p> <ul style="list-style-type: none"> • Wide MPPT voltage range with high efficiency • Low start-up voltage • Smart MPPT algorithm • Multichannel MPPT algorithm 	<p>Reliable</p> <ul style="list-style-type: none"> • World-class components suppliers • IP65 Rated • Thermal fatigue life analysis • More than 50 test items • More than 10 years' experience 	<p>Smart</p> <ul style="list-style-type: none"> • App interactive information • Remote power regulation • Remote firmware upgrade • Monitor the curve characteristics of each string 	<p>Flexible</p> <ul style="list-style-type: none"> • Wi-Fi, Ethernet, GPRS, RS485, RS232 optional • Centralized operation and management of cloud Center • Taylor-made Redesign friendly
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O1-HF Series Off-Grid Storage Inverter

3.6-5kW, Single Phase Off-Grid Storage inverter, 1 MPPT Compatible with 48V Batteries independently



- Configurable grid or solar input priority
- MPPT charge controller and AC charger integrated
- Max. 6 in parallel
- Compatible with lead-acid and lithium batteries
- Double rating of surge power suitable for motor loads

TITAN SOLAR CLOUD



Titan Solar Cloud provides systematic O&M management for solar projects based on the IoT Technology, via data and cloud computing.

- 1 SYSTEMATIC SOLUTIONS**

Titan Solar Cloud collects comprehensive data from solar projects, including data from inverters, meteorological station, combiner box, DC combiner, electric and module strings.
- 2 DATA CONNECTION COMPATIBILITY**

Titan Cloud is compatible with and able to connect to more than 40 inverter brands globally.
- 3 INTELLIGENT O&M**

Titan Solar Cloud platform realizes centralized O&M, including intelligent fault diagnosis, fault automatic positioning and close-cycle O&M, etc.
- 4 GROUP AND FLEET MANAGEMENT**

It can realize the fleet O&M management for the solar plants around the world and is also suitable for residential solar projects after sales service. It can dispatch the service orders to the service team nearby the fault site.



On-grid Inverters
R1 Mini Series

1.1kW/1.6kW/2.2kW/2.7kW
3.3kW/3.7kW
Single Phase, 1MPPT



On-grid Inverters
R1 Macro Series

4kW / 5kW / 6kW
Single Phase, 2 MPPTs



On-grid Inverters
R1 Moto Series

8kW/10kW/10.5kW
Single Phase, 2 MPPTs



On-grid Inverters
R3 Note Series

4kW / 5kW / 6kW / 8kW /
10kW / 12kW / 15kW
Three Phase, 2 MPPTs



On-grid Inverters
R3 LV Series

10kW/12kW/15kW
Three Phase, 2 MPPTs



On-grid Inverters
R3 Pre Series

10kW/15kW/17kW/
20kW/25kW
Three Phase, 2 MPPTs



On-grid Inverters
R3 Navo Series

30kW/36kW/40kW/50kW
Three Phase, 3/4 MPPTs



On-grid Inverters
R3 Plus Series

60kW/70kW/75kW/80kW
Three Phase, 3/4 MPPTs



On-grid Inverters
R3 Max Series

120kW / 150kW
Three Phase, 10 / 12 MPPTs



On-grid Inverters
N1 HV Series

3kW/3.68kW/5kW/6kW
Single Phase, 2 MPPTs
High Voltage Hybrid Inverter



Energy Storage Products
N3 HV Series

5kW / 6kW / 8kW / 10kW
Three Phase, 2 MPPTs
High Voltage Hybrid Inverter



Energy Storage Products
N1 HL Series

3kW/3.68kW / 5kW
Single Phase, 2 MPPTs
Low Voltage Hybrid Inverter



Energy Storage Products
A1 HV Series

3kW/3.68kW/5kW/6kW
All-in-one Energy Storage System



Batteries
Turbo H1 Series

3.74kWh/7.48kWh/11.23kWh
14.97kWh/18.7kWh
High Voltage Battery



Batteries
Turbo H3 Series

7.1kWh/9.5kWh
High Voltage Battery

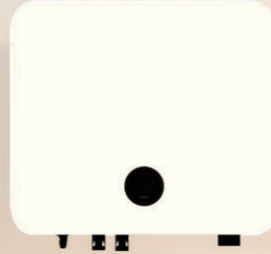


Batteries
Turbo L1 Series

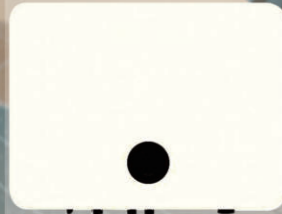
5.3 kWh
Low Voltage Battery



1-phase inverter with one MPPT
STS-1K-3.3KTL-S
EFFICIENCY OF MAXIMUM 97.5%
IP65 PROTECTION



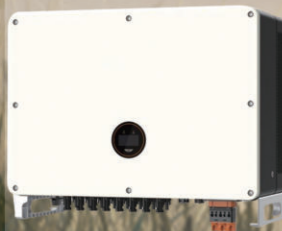
1-phase inverter with 2 MPPT
STS-3K-6KTL-P
EFFICIENCY OF MAXIMUM 98.1%
IP65 PROTECTION



1-phase inverter with 2 MPPT
STS-7K-11KTL
EFFICIENCY OF MAXIMUM 98.1%
IP65 PROTECTION



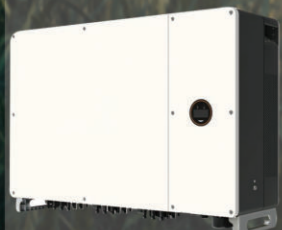
3-phase inverter with 2 MPPT
STT-4K-25KTL-P
EFFICIENCY OF MAXIMUM 98.6%
IP65 PROTECTION



3-phase inverter with 4 MPPT
STT-30K-60KTL
EFFICIENCY OF MAXIMUM 98.8%
IP66 PROTECTION



3-phase inverter with 6 MPPT
STT-50K-60KTL-P
EFFICIENCY OF MAXIMUM 98.8%
IP65 PROTECTION



3-phase inverter with 8/10 MPPT
STT-80K-110KTL, 100K/125KTL-HV
EFFICIENCY OF MAXIMUM 98.8%
IP65 PROTECTION



1-phase energy storage inverter with 2 MPPT
STH-3K-3.6KTL-HSS, STH-4.2K-8KTL-HS
EFFICIENCY OF MAXIMUM 97.6%
IP65 PROTECTION



3-phase energy storage inverter with 2 MPPT
STH-4K-12KTL-HT
EFFICIENCY OF MAXIMUM 98.2%
IP65 PROTECTION



3-phase energy storage inverter with 2 MPPT
STH-15K-33KTL-HT
EFFICIENCY OF MAXIMUM 98.2%
IP66 PROTECTION



HIGH VOLT- LI-ION- AKKU STE-BS

Batch assembly, saving time and mone
Battery life (6000)cycles
Remote diagnosis and upgrade support
Charge your battery in half an hour
Optional battery capacity of 5.12-20.48 kWh
Perfectly matched to inverters for households and businesses



WIFI-Module

Reliability
Flexibility
Extendability



GPRS-Module

Reliability
Flexibility
Extendability



LAN-Module

Reliability
Flexibility
Extendability



Intelligent counter STM

Export limit and control
Compatible with various
Various CT models available
High accuracy of current network types measurement



Energy manager STK

Export limit and control
Various CT models available
Compatible with various network types
High accuracy of current measurement
24/7 Real-time consumption monitoring
Integrated functions of WiFi/LAN/RS485

MORE SAFETY MORE POWER



On-grid PV System with Microinverter

Low DC Voltage, Module-level MPPT, Safe and Efficient!

More efficient

PV solar systems have always been affected by 'Shadow Effect' since they were put into use. The output current of PV modules will be greatly affected when the modules were sheltered by shadow. In a PV array, the current change of a single PV module will affect the current of entire PV array, thus affecting the generating efficiency of the whole PV system.

As a representative technical route in MLPE, TSUN Microinverter has multi-channel MPPT, which can track and converts power for single PV module.

The single shadowed PV module will not affect the power generation of other PV modules, so as to maximum the energy generation efficiency and energy production.

What's more, multi-channel MPPT design makes microinverters more suitable for complex roof environments and meet more customized installation requirements

More Safe

As a solar energy conversion device, PV modules output energy under sun radiation and cannot be turned off, which leads to high DC voltage continuously existing in the area of PV array when there is radiation.

Just in case the DC terminal contact is poor, it's easy to cause DC arc, resulting in PV system fire accident. Meanwhile, if the PV array wire is damaged, the electric shock risk might exist, threatening the safety of firefighters. However, TSUN Microinverter adopts multi-channel

MPPT design, each input with low DC voltage as well as the entire system.

Therefore, the PV system with TSUN microinverter has no risk of DC high voltage and DC arc.

And in emergency situations such as fire, the firefighters safety can be guaranteed with no risks of electric shock.

Much Easier to Install

PV system requires professional installers to install. But TSUN Microinverters adopt plug-and-play design, most connecting work can be finished on the roof.

Therefore, compared with other traditional inverters, the installation of TSUN Microinverter is much easier and only needs simple training.

Much Easier to Monitor

Meanwhile, the monitoring system of TSUN Microinverter can collect the information of single PV module to indicate the real time situation of each PV module.

If the abnormal situation exists in PV system, the users can quickly locate the exception, analyze and rectify the problems, and then restore the system by using the monitoring system

All-in-one AC Coupled Unit



ACU3.0K ACU3.6K ACU4.0K ACU4.6K ACU500K ACU6.0K

Batter Data

Batter Type	LiFePO4					
Batter Capacity per Kit [kWh]	5.12					
Batter Voltage per Kit [V]	51.2					
Max. Batter Quantities per System	4 (Up to 20.48 kWh)					
Max. Charging Power [W]	3000	3600	4000	4600	5000	6000
Max. Charging/ Discharging Current [A]	60/60	72/72	80/80	92/92	100/100	120/120

Batter Data

Rated Output Power[W]	3000	3600	4000	4600	5000	6000
Max. Output Power [VA]	3300	3680	4400	4600	5500	6000
Rated Output Current [A]	13	16	17.4	20	21.7	26.1
Max. Output Current [A]	15	16.7	20	23	25	27.3
Rated Output Voltage [V]	220/230/240, L/N/PE					
Rated Grid Frequency [Hz]	50/60					
Power Factor [cos φ]	0.8 leading~0.8 lagging					
Total Harmonic Distortion [THDi]	<3%					

AC Output [Back-up Mode]

Rated Output Power [W]	3000	3600	4000	4600	5000	6000
Max. Output Current [A]	15	16.7	20	23	25	27.3
Rated Output Voltage [V]	220 / 230 / 240, L/ N/ PE					
Rated Output Frequency [Hz]	50/60					
Total Harmonic Distortion of Voltage	<3%					
Switch Time [ms]	<20					
Peak Output Apparent Power [VA]	3600VA, 60sec	4200VA, 60sec	4800VA, 60sec	5500VA, 60sec	6000VA, 60sec	7200VA, 60sec

Efficiency

Max. Batter Charging/ Discharging Efficiency	95% / 95%
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All-in-one AC Coupled Unit (Three phase)

Technical Data



Batter Data

Batter Type	LiFePO4					
Batter Capacity per Kit [kWh]	5.12					
No. of Battery Input	2					
Battery Voltage Range [V]	125~600					
Rated Charge/Discharge power [W]	4000	5000	6000	8000	10000	12000
Max. Charging/Discharging Current [A]	25					
Communication Interfaces	CAN/RS485					

AC Output Data [On-grid]

Rated AC Power[W]	4000	5000	6000	8000	10000	12000
Max. AC Power Output to Grid [VA]	4400	5500	6600	8800	11000	13200
Max. AC Power from Grid [VA]	8000	10000	12000	16000	20000	20000
Max. AC Current Output to Grid [A]	6.7	8.3	10	13.3	16.7	20
Max. AC Current from Grid [A]	12.1	15.2	18.2	24.2	30.3	36.4
Rated Grid Voltage	3/N/PE, 220/380Vac, 230/400Vac					
Grid Voltage Range	184Vac~276Vac					
Rated Grid Frequency [Hz]	50/60					
Grid Frequency Range	45Hz~55Hz/55Hz~65Hz					
Power Factor [cos φ]	~1(0.8 leading to 0.8 lagging)					
Output THDi (@Rated output)	<3%					

AC Output Data [Back-up Mode]

Nominal Output Power [W]	4000	5000	6000	8000	10000	12000
Max. Output Power [VA]	4400	5500	6600	8800	11000	13200
Peak Output Power, Duration	8000VA, 60s	10000VA, 60s	12000VA, 60s	16000VA, 60s	20000VA, 60s	2000VA, 60s
Max. Output Current [A]	6.4	8	10	13	16.7	20
Peak Output Current, Duration	13.6A, 60s	15A, 60s	18A, 60s	24A, 60s	30A, 60s	30A, 60s
Rated Output Voltage [V]	3/N/PE, 220/380Vac, 230/400Vac					
Rated Output Frequency [Hz]	50/60					
Output THDv (@Liner load)	<3%					
Switch Time [ms]	<10					

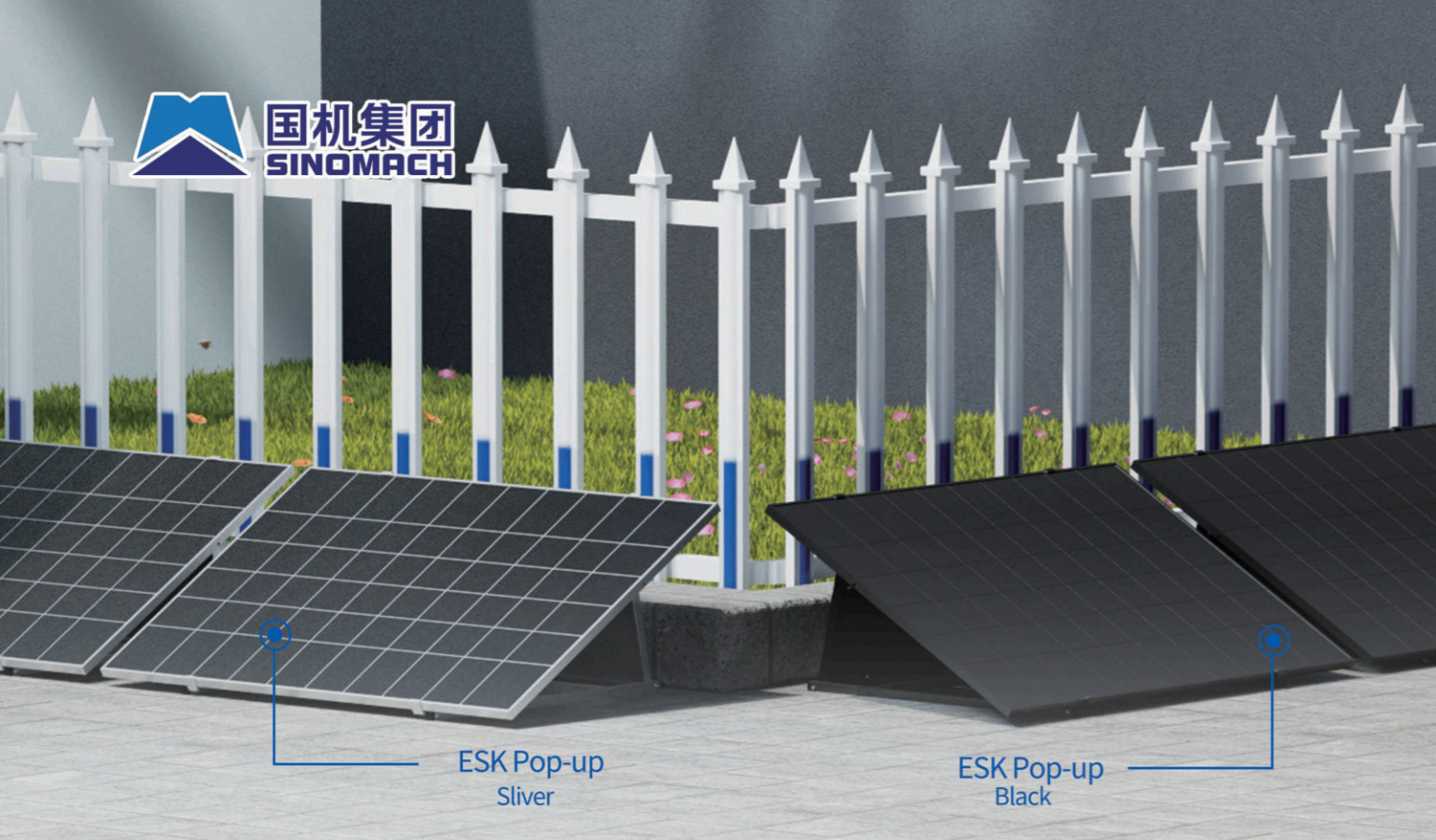
Protection

Battery Input Reverse Polarity Protection	Integrated
AC Short Circuit Protection	Integrated
Overload Protection	Integrated
Surge Protection	Integrated
Residual Current Protection	Integrated
AC Overvoltage/Undervoltage Protection	Integrated
AC Overfrequency/Underfrequency Protection	Integrated
Over Temperature Protection	Integrated
Anti-islanding protection	Integrated

General Data

Topology	Transformerless
Ingress Protection	P65
Operating Temperature Range	-30~+60°C
Ambient Humidity	0~100%
Altitude	4000m(>3000m power derating)
Noise[dBA]	<25
Cooling method	Natural Convection
Dimensions [WxHxD mm]	408x652x195 (Inverter)/388x652x195 (Battery)
Weight [kg]	20 (Inverter)/50 (Battery)
Communication	Wi-Fi / 4G (Optional)





ESK Pop-up Silver

ESK Pop-up Black

Applicable scenarios

Easy Solar Kit Pop-Up

Technical Data



DC Power Data

Module Power (P _{nom})	400-460
Module Efficiency	20.5%
Power Tolerance	0/+5W
Temp. Coef. (Power)	-0.35%/°C
Quantity of modules	1

AC Electrical Data

Max. Continuous Output Power [W]	400
Max. Output Current [A]	2
Nominal Output Voltage [V]*	220/230/240
Nominal Frequency [Hz]*	50/60
Power Factor	>0.99
Output Current Harmonic Distortion	<3%

Certification

Solar Module	CE, TUV, INMETRO, SEC
Microinverter	CE-LVD, CE-EMC, VDE 4105, VDE 0126, EN 50549

Environmental Data

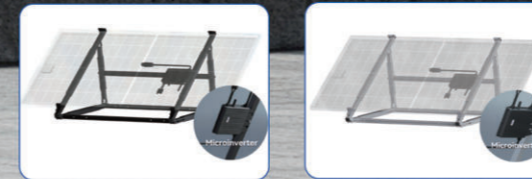
Environmental Protection Rating	IP67
Operating Ambient Temperature Range	-40 °C to 60 °C
Relative Humidity	0-100%
Max. Operating Altitude Without Derating [m]	2000

Environmental Data

Weight [kg]	30
Dimensions [W×H×D mm]	1724*1144*80
Packing Configuration	12 pcs kit / pallet, 26 pallet/40HQ
Warranty	12 years



Easy Solar Kit Transformer



Microinverter Parameter

Recommended Module Power (STC P _{max})	300-550
Max. DC Voltage per Input [V]	60
Max. DC Current per Input [A]	14
Max. DC Short Circuit Current per Input [A]	20
Input Connector Type	MC4
Max. Continuous Output Power [W]	400
Max. Output Current [A]	2
Nominal Output Voltage [V]*	220/230/240
Nominal Frequency [Hz]*	50/60
Power Factor	>0.99
Output Current Harmonic Distortion	<3%

Bracket Parameter

Length of Solar Module [mm]	>900
Width of Solar Module [mm]	>500 ; < 1114
Thickness of Solar Module [mm]	35 (30 / 25 optional)
Optional Accessories	Clevises * 2 ; Wire Ropes * 4

Bracket Parameter

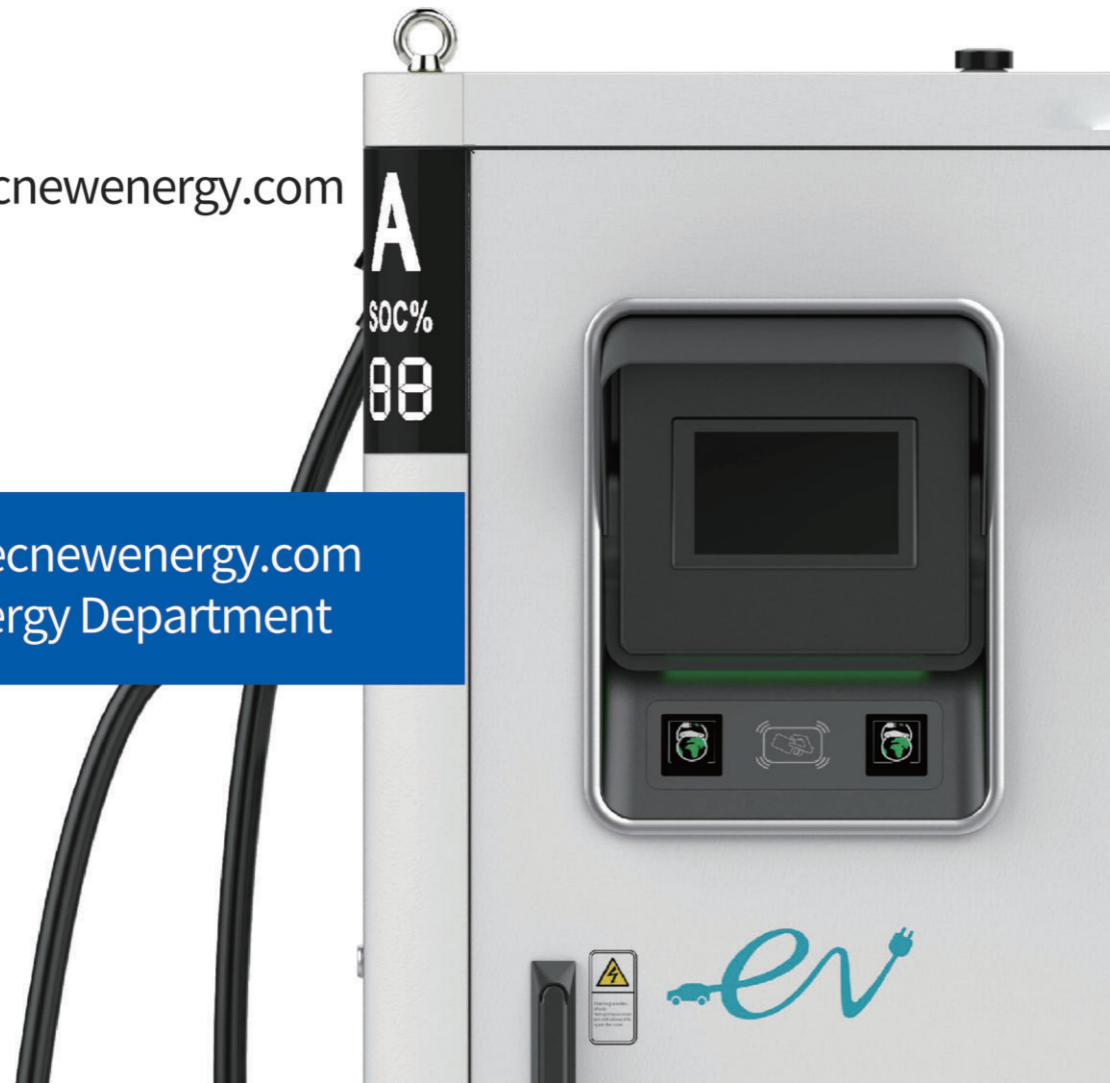
Length of Cable [m]	2.1
Wire Gauge	3 * 1.5 mm ²
Plug Type	Depending on specific country

Bracket Parameter

Dimensions [W×H×D mm]	885×360×108
Weight [kg]	12
Environmental Protection Rating	IP67
Operating Ambient Temperature Range	-40 °C to 60 °C
Relative Humidity	0-100%
Max. Operating Altitude Without Derating [m]	2000

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New Energy Department



60KW DC CHARGER



Features:

Elegant Design

All aluminum Z-shaped shutter patented technology
Clear display of SOC status
Sunshade protection, cold light assistance

Intelligent Control

Online status diagnosis
OTA remote upgrade
4G Connection
OCPP1.6J

Strong Performance

Equal power distribution between 2 connectors
Wide constant charging power range 300V~1000V
Low standby power consumption
Charging efficiency up to 95%

Smart Wallbox 7kW

7kW smart wallbox, ideal choice for home charging: smart, safe and simple.

Features:

AC 30mA+DC 6mA RCD Inside

Provide a more comprehensive detection capability for various residual fault currents.

IP55 Protection

Better protect the product integrity, produce a longer charger lifespan. ü Remote schedule the charging

With WiFi connection and mobile APP, you can schedule the charging remotely.

LCD Display

The 3.8 inch screen display the charger status, charging power, etc.

- OCPP1.6
- WiFi Connection
- Over-the-Air updates · AC30mA+DC 6mA RCD
- 7kW power · Tethered with 5m cable
- Post mount available



Smart Wallbox 11/22kW

11/22kW Multipurpose Wallbox, intelligent and flexible for various applications: fleets, retail, workplace

Features:

Flexible authentication

RFID, mobile APP, plug & charge. ü MID energy meter (external connection from RS485)

More precise metering, comply with the most demanding billing requirements.

4G communication (optional)

A variety of communication interfaces ensure the charger can be connected to the background system.

LCD display

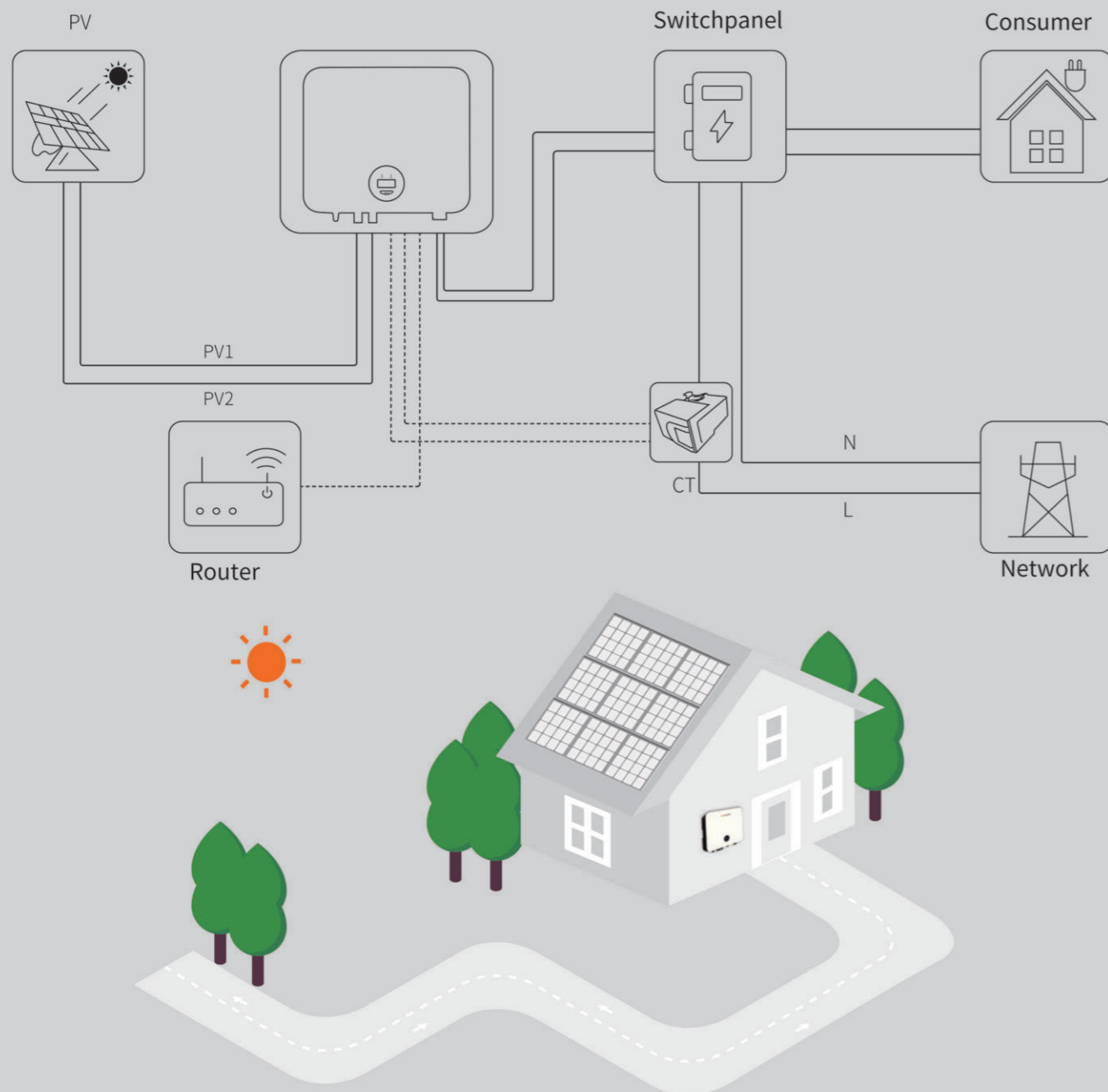
The 3.8 inch screen display the charger status, charging power, etc.

- OCPP1.6
- WiFi Connection
- Over-the-Air updates · AC30mA+DC 6mA RCD
- 11/22kW power · Tethered with 5m cable
- Post mount available



Application scenarios >>>

Generally, grid-tied PV inverters are used for residential and commercial roofs. The photovoltaic system consists of a photovoltaic system, a grid-connected inverter, a power grid and a consumer. Whether the consumer is connected to the system depends on whether the selected application scenario delivers all the grid-tied power or only the remaining power.



Monitoring 03 >>>

WEB take a look at what our portal has prepared for you

