

January 30, 2023

Version 10.0

Solar Products

HAS Solar

www.hastrading.biz/has-solar/index.html

*We manufacture solar panels, assemble solar applications,
and integrate solar power systems!*



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The Purpose of This Booklet

The purpose of this booklet is to advertise our solar products. Clients can find lots of information about our solar products in this booklet, including product description, price, MOQ, etc.

About HAS Trading

The "HAS Hardware" & "HAS Solar" brands are owned by HAS Trading Limited (HK Company Registration No.: 2021657).

HAS Trading Limited is founded in Year 2014 in HK.

In September 2016, it set up its own solar panel factory in Dong Guan (China) to manufacture solar panels, solar applications, and solar systems. www.hastrading.biz/has-solar/index.html

In September 2017, it acquired a local factory in Guang Zhou (China) to produce Paint Protection Film (PPF) and started to cut into the car care market. www.hastrading.biz/has-ppf/index.html

In November 2017, its packing department started to manufacture for other customers. www.hastrading.biz/has-packing/index.html

In September 2018, HAS Trading acquired the Dongguan KTH Safety factory as one of its departments (the HAS Medical) to supply gloves to Hong Kong hospitals. www.hastrading.biz/has-medical/index.html

Nowadays, it is continuing Innovation...



Solar Panels

Overage Module Price on 370W Mono PERC

Announcement:

The company board decides to stop updating the public price since September 2022, and you can send email to solar@hastrading.biz for price enquiry.

Part #: 9044, PV, 500w, Mono

MOQ: 24 pieces (12,000 Watts)

Unit Price Based on MOQ: USD 124.00 per panel

Specifications

Maximum Power (W)	500
Tolerance (%)	± 3%
Open Circuit Voltage (V)	64.8
Maximum Power Voltage (V)	48.0
Maximum Power Current (A)	10.42
Short Circuit Current (A)	11.06
Module Efficiency (%)	25.8
Solar Cell Efficiency (%)	23
Series Fuse Rating (A)	15
Terminal Box	IP63
Maximum system voltage (V)	DC1000
Operating Temperature(°C)	-40 ~+85



Mechanical Data

Dimension	1960*1308*41mm
Frame	40mm anodized aluminum
Wind Load Capacity	5400 Pa
Weight	35KG/PCS
Packing	1 unit per carton
Container Loading 1	220pcs/ 20' Container
Container Loading 2	480pcs/ 40' Container

Part #: 9050, PV, 380w, Mono

MOQ: 25 pieces (8,750 Watts)

Unit Price Based on MOQ: USD 0.37 per Watt

Specifications

Maximum Power (W)	380
Tolerance (%)	± 3%
Open Circuit Voltage (V)	44.90
Maximum Power Voltage (V)	37.44
Maximum Power Current (A)	10.15
Short Circuit Current (A)	10.96
Module Efficiency (%)	19.6
Solar Cell Efficiency (%)	22
Series Fuse Rating (A)	15
Terminal Box	IP63
Maximum system voltage (V)	DC1000
Operating Temperature(°C)	-40 ~+85

Mechanical Data

Dimension	1950*992*45mm
Frame	40mm anodized aluminum
Wind Load Capacity	5400 Pa
Weight	26KG/PCS
Packing	2 units per carton
Container Loading 1	240pcs/ 20'Container
Container Loading 2	500pcs/ 40' Container



Part #: 9081, PV, 265w, Poly

MOQ: 26 pieces (6,890 Watts)

Unit Price Based on MOQ: USD 0.30 per Watt

Electrical Data

Nominal Max. Power (Pmax STC)	265 W
Nominal Max. Power (Pmax NOCT)	196 W
Nominal Max Voltage (Vmp)	31.22 V
Open Circuit Voltage (Voc)	38.28 V
Nominal Max Current (Imp)	8.49 A
Short Circuit Current (Isc)	9.01 A
Maximum System Voltage	1,000 V
Module Efficiency	16.29%



Mechanical Data

Tolerance	±3%
Cell Type	Poly-crystalline, 156 x 156mm
Cell Arrangement	60
Dimensions	1,640 x 992 x 40 mm
Net Weight	18.8 KGs
Front Cover	3.2mm tempered glass
Encapsulate	EVA
Back Cover	TPT
Frame Material	35mm anodized aluminum alloy
Connectors	MC4



Standard Packaging	26 PCs per Pallet
Temperature Coefficient (Pmax)	-0.41% / °C
Temperature Coefficient (Voc)	-0.31% / °C
Temperature Coefficient (Isc)	+0.06% / °C
Nominal Operating Temperature Range	-45°C



Part #: 9065, PV, 280w, Mono

MOQ: 26 pieces (7,280 Watts)

Unit Price Based on MOQ: USD 0.37 per Watt

Electrical Data

Nominal Max. Power (Pmax STC)	280 W
Nominal Max. Power (Pmax NOCT)	280 W
Nominal Max Voltage (Vmp)	29.93 V
Open Circuit Voltage (Voc)	37.50 V
Nominal Max Current (Imp)	9.36 A
Short Circuit Current (Isc)	10.30 A

Maximum System Voltage 1500 V

Module Efficiency 20.3 %

Mechanical Data

Tolerance $\pm 5\%$

Cell Type Poly-crystalline, 156 x 156mm

Cell Arrangement 60 (6 x 10)

Dimensions 1640 x 990 x 40 mm

Net Weight 17 KGs

Front Cover 3.2mm tempered glass

Encapsulate EVA

Back Cover TPT

Frame Material 35mm anodized aluminum alloy

Connectors MC4

Standard Packaging 26 pieces, 496KGs, per pallet

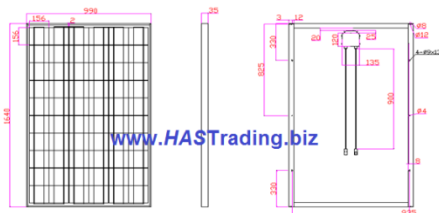
Temperature Characteristics

Temperature Coefficient (Pmax) $-0.45\% / ^\circ\text{C}$

Temperature Coefficient (Voc) $-0.35\% / ^\circ\text{C}$

Temperature Coefficient (Isc) $+0.05\% / ^\circ\text{C}$

Nominal Operating Temperature Range $-40^\circ\text{C} \sim +90^\circ\text{C}$



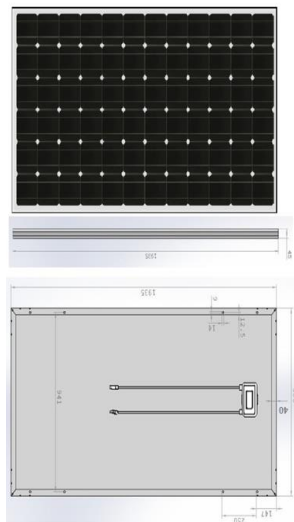
Part #: 9090, PV, 350w, Mono, All Black

MOQ: 25 pieces (8,750 Watts)

Unit Price Based on MOQ: USD 0.37 per Watt

Specifications

Maximum Power (W)	350
Tolerance (%)	± 3%
Open Circuit Voltage (V)	43.92
Maximum Power Voltage (V)	35.14
Maximum Power Current (A)	9.96
Short Circuit Current (A)	12
Module Efficiency (%)	18.3
Solar Cell Efficiency (%)	20
Series Fuse Rating (A)	10
Terminal Box	IP65
Maximum system voltage (V)	DC1000
Operating Temperature(°C)	-40 ~+85



Mechanical Data

Dimension	1950*992*45*40mm
Frame	40mm anodized aluminum, black color
Wind Load Capacity	5400 Pa
Weight	24KG/PCS
Packing	2 units per carton
Container Loading 1	200pcs/ 20'Container
Container Loading 2	440pcs/ 40' Container

Features:

- ◆ **40mm anodized aluminum frame to provide efficient protection and specially design for strong wind area!**
- ◆ **All black color including the panels and frames!**



Part #: 9070, Solar Panel 10w 18v

MOQ: 100 pieces

Unit Price Based on MOQ: USD 6.69 per piece

Specifications

Maximum Power	(Pmax)	10	W
Voltage at Pmax	(Vmp)	18.18	V
Current at Pmax	(Imp)	0.55	A
Open-Circuit Voltage	(Voc)	22.32	V
Short-Circuit Current	(Isc)	0.58	A
Power Tolerance: +/-5% Size: 290*240*17*17mm			
Weight: 0.9kg Cells: 36pc Mono-crystalline silicon			
Max System Operating Voltage: 1000V, Standard Test condition: 1000W/m², AM1.5 25°C			



Part #: 9089, Sunpower Solar Panel

MOQ: 3000 Pieces

Unit Price based on MOQ: USD 0.80 per Watt

Dimensions: 70.00mm x60.00mm x2.10mm

Item Weight: 10g

Type: Mono-crystalline, Sunpower branded

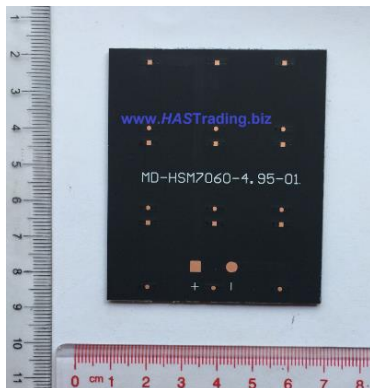
Power: 0.77w

Operating Current: 140ma

Open Circuit Voltage: 5.5V

Surface Treatment: laminated

Note: customized dimension and power could be on Request!



Flexible Panels

Part #: 9079, Sunpower Panel 6w 6v, Flexible

MOQ: 3,000 Watts

Unit Price based On MOQ: USD 4.00 per piece

Overall Size: 287.00x155.00x2.20mm

Board Dimensions: 269.00x135.00x2.20mm

Item Weight: 110g

Type: Mono-crystalline, Sunpower branded

Power: 6W

Operating Current: 1A

Operating Voltage: 6V

Surface Treatment: laminated, PET

Note: customized dimension and power could be on Request!



Part #: 9046, 15w waterproof ETFE flexible solar panel

MOQ: 500 units

Unit Price Based on MOQ: USD 17.60 per unit

Feature: waterproof

Lamination: ETFE

Power: 15 Watts

Voltage Output: 5V

Current Output: 3A

Size: 267x532 MM

Weight: 0.45 KG

With standard USB output and auto-resistor



Part #: 9091, 320w Flexible Panel

MOQ: 50 panels

Unit Price Based on MOQ: USD 228.00 per panel

Bend Ratio: 400MM or 30 Degree

Maximum Power: 325W

Open Circuit Voltage: 46.5V

Maximum Power Voltage: 38.0V

Maximum Power Current: 8.55A

Short Circuit Current: 9.15A

Module Efficiency: 21%

Solar Cell Efficiency: 23%

Series Fuse Rating: 15A

Terminal Box: IP63

Maximum system voltage: DC1,000

Dimension: 1750*990*4MM

Weight: 7.4KG/Panel



Rollable Solar Films

Part #: 9077, Organic Rollable Solar Pocket Charger

MOQ: 1,000 pieces

Unit Price Based on MOQ: USD 45.00

Size: 140x50x40 mm

Weight: 165 g

Battery Type: 18650

Battery Capacity: 2,600 mah

Solar Panel Type: Flexible and Rollable

Solar Panel Power: 5W1A

Solar Panel Roll Length: 1M

Input USB: 5V1A

Output USB: 5V1A

Embedded Lighting: LED chip 5050, 0.2W



And Yes! This is HAS Trading Chinese price! Exactly based on the spec above, and we make this product for USD 45.00 Only!

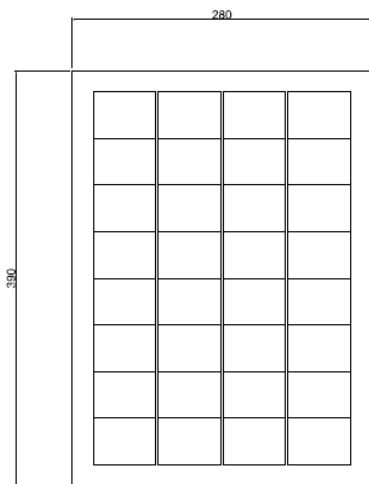


Part #: 9071, Rollable Solar Film, 12w 16.6v

MOQ: 100 pieces (1,200 Watts)

Unit Price Based on MOQ: USD 5.88 per Watt

Specifications



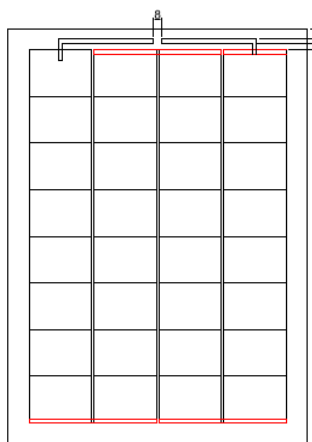
正面图

组件正面: 32cell 8cell竖向串联\4个串联支路串联
(single cell size) 芯片43.75mm*58.5mm, 基于2.05W芯片切割

理论电性能参数: $P_{mpp}(W): 12.3$

$U_{oc}(V): 21.06$ $U_{mpp}(V): 16.64$

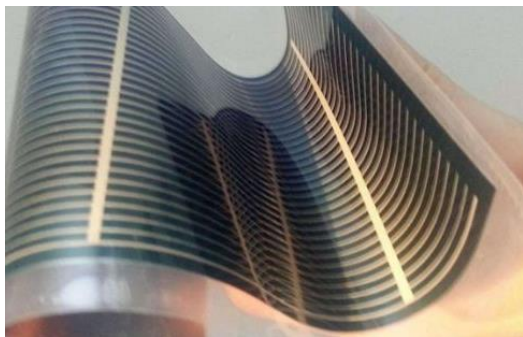
$I_{sc}(A): 0.87$ $I_{mp}(A): 0.74$



背面图

背面出线, 位置朝向、接线长度10mm (strip length)

Minium Rolling Diameter: less than 100mm

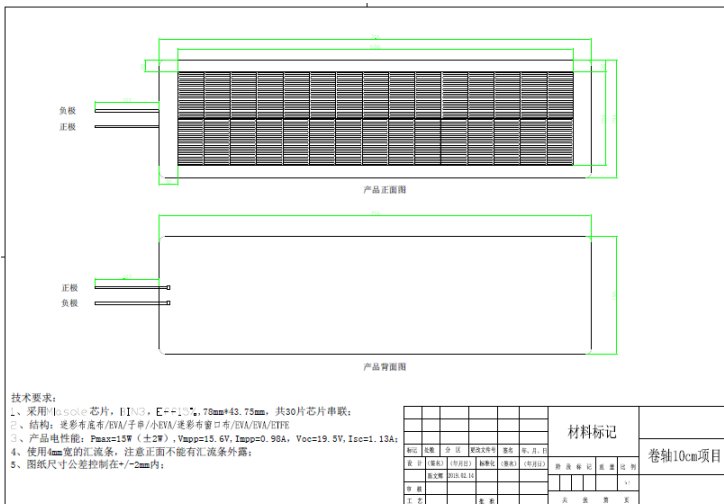


Part #: 9064, Rollable Solar Film, 15w 15.6v

MOQ: 100 pieces (1,500 Watts)

Unit Price Based on MOQ: USD 5.88 per Watt

Specifications




Solar Power Generator Systems

Part #: 9067, Solar Power Generator System, 500w

MOQ: 100 sets

Unit Price Based on MOQ: USD 230.00 per set

Specifications





Part #	Description	Pictures	Configuration
9067	Solar Generator with Solar Panel, Inverter, Charge Controller, Battery		1. Solar Panel: mono, 120w, with 5 meter cable
			2. Lead Acid Battery: 12V, 65AH, 780WH
			3. Charge Controller: 12V, 15A
			4. Inverter: 500W, Pure sine wave
			5. DC USB Output: x2
			6. DC 12V Output: x4
			7. AC Output: 220v/110v(Only choose one)

Part #: 9066, Solar Power Generator System, 5kw 48v

MOQ: 10 sets

Unit Price Based on MOQ: USD 9,690.00 per set

Specifications

Part #	Description	Pictures	Configuration(for one complete set)
9066	5KW, 48V Solar System		Solar Panel x12 pieces: mono, 250w/pc, 1640*990*35mm/pc
			Aluminum Installation Frame x1 set
			Regulator(mppt) and Inverter two in one x1 piece: AC220V, 5KW
			Lithium Battery x12 pieces: 12.8V, 200AH, Lithium iron phosphate Battery
			Cable x100 meters: copper, for DC, specially made for PV system
			Connector x6 pairs: MC4

Solar Street Lights

Part #: 9045, Solar Road Marker

MOQ: 500 pieces

Unit Price Based on MOQ: USD 5.16

Material: Die-cast aluminum housing + reflective sheet + PC

Solar panel: mono, 2.5V/120MA

Battery: 1.2V/600MAH

Working time: under standard light intensity, one charging for 8H one day can support 72H continuous lighting after full charging.

Static crush resistance: >40 tons

Light source: 6 * 5mm super bright anti-fog LED lights

Light color: white/yellow/red/green/blue on request

Light mode: constantly bright/blink on request

Illuminance: < 500Lux

Visible distance: >500 meters

Effective Lifetime: >3 years

Working environment: -20°C ~ +70°C


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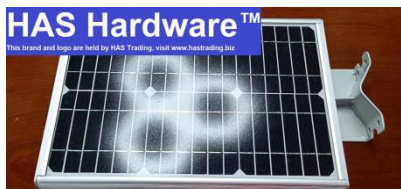


Part #: 9058, Solar Street Light, 10w

MOQ: 50 pieces

Unit Price Based on MOQ: USD 85.00

10W all in one solar led street light		
	Picture	
	Solar Panel	18V 18W
	Battery Type	Lithium-ion battery 12V 9AH
	Life Cycle	≥2000
	LED Type	10W Epistar high power LED
	Life Cycle	≥50000 hours
	Total Luminous Flux	1000~1100lumen
	Charging Time	6 hours under the midday sun
	Daily Backup	3~5 nights
	Sensor (PIR)	Yes
	Detection distance	10~12m
	Detection angle	140 degrees
	Working mode	Sensor100% No Sensor 30%
	Storage temperature	-20~+60℃
	Protection sign	IP65
	Installation height	3~4 meters (but you can go higher)



Part #: 9059, Solar Street Light, 20w

MOQ: 50 pieces

Unit Price Based on MOQ: USD 109.00

20w all in one solar led street light		
Picture	Solar Panel	18V 30W
	Battery Type	li-ion lithium battery 15AH
	Life Cycle	≥2000
	LED Type	20w Epistar high power LED
	Life Cycle	≥50000 hours
	Luminous Flux	6000 lumen
	Charging Time	6 hours under the midday sun
	Daily Backup	3-5 nights
	Sensor (PIR)	Yes
	Detection distance	10-12m
	Detection angle	140 degrees
	Working mode	Sensor100% No Sensor 30%
	Storage temperature	-20~+60℃
	Protection sign	IP65
	Installation height	4-5 meters (but you can go higher)



Part #: 9060, Solar Street Light, 30w

MOQ: 50 pieces

Unit Price Based on MOQ: USD 141.00

30w all in one solar led street light		
	Picture	
	Solar Panel	18V 50W
	Battery Type	Li-ion lithium battery 21AH
	Life Cycle	≥2000
	LED Type	30W Philips 3030
	Life Cycle	≥50000 hours
	Luminous Flux	6000 lumen
	Charging Time	6 hours under the midday sun
	Daily Backup	3-5 nights
	Sensor (PIR)	Yes
	Detection distance	10-12m
	Detection angle	140 degrees
	Working mode	Sensor100% No Sensor 30%
	Storage temperature	-20~+60℃
	Protection sign	IP65
	Installation height	5-6 meters (but you can go higher)



Part #: 9061, Solar Street Light, 60w

MOQ: 50 pieces

Unit Price Based on MOQ: USD 214.00

60w all in one solar led street light		
	Picture	
	Solar Panel	18V 70W
	Battery Type	Li-ion lithium battery 36AH
	Life Cycle	≥2000
	LED Type	60W Philips 3030(60PCS)
	Life Cycle	≥50000 hours
	Luminous Flux	6000 lumen
	Charging Time	6 hours under the midday sun
	Daily Backup	3-5 nights
	Sensor (PIR)	Yes
	Detection distance	10-12m
	Detection angle	140 degrees
	Working mode	Sensor100% No Sensor 30%
	Storage temperature	-20~+60℃
	Protection sign	IP65
	Installation height	7-8 meters (but you can go higher)



Solar Pumps

Part #: 9049, Solar Pump

MOQ: 50 Pieces

Unit Price based On MOQ: USD 179.00

Assembly #: 3FLA2-50-0.75

Max Flow: 2/3.8 M3/H

Max Head: 50/80 M

Pump Voltage: AC110/DC150 V

Pump Power: 750 W

Pump Diameter: 3 Inch

Outlet Diameter: 1 Inch



Part #: 9062, Solar Pump

MOQ: 50 Pieces

Unit Price based On MOQ: USD 270.00

Assembly #: 4FLD18-22-72-1100

Max Flow: 18 M3/H

Max Head: 22 M

Pump Voltage: DC 72 V

Pump Power: 1100 Watts

Pump Diameter: 4 Inch

Outlet Diameter: 2 Inch

Pump Height: 525 MM

Solar Panel Voltage Range: 63-150 V

Solar Panel Power: 1500 Watts

Solar Panel Suggested Configuration: 4 pieces of 200W (VOC 44V) in series, 2 groups in parallel



Part #: 9057, Solar Pump

MOQ: 50 Pieces

Unit Price based On MOQ: USD 179.00

Assembly #: 3FLS1.0/30-D24/80

Max Flow: 1 M3/H

Max Head: 30 M

Pump Voltage: 24 72 V

Pump Power: 80 Watts

Pump Diameter: 3 Inch

Outlet Diameter: 1 Inch

Solar Panel Voltage Range: 25-50 V

Solar Panel Power: 150 Watts



Solar Power Banks

Part #:9075, Solar Charger Portable Power Bank Square Basement

MOQ: 1,000 pieces

Unit Price Based on MOQ: USD 5.30

Size: 118x118x18mm

Weight: 240 g

Battery Type: 18650

Battery Capacity: 3,600 mah

Solar Panel Type: Mono

Solar Panel Power: 0.6W0.12A

Input USB: 5V1A

Output USB: 5V1A



Features:

- *Made of ABS material.
- *The USB ports are well protected, to further keep them away from water and safe.
- *Solar panel: this is much customized; we can do poly, mono, or Sunpower.
- *USB output: this is fit for most main smart phones on the market.
- *Attachment mount design: product gets 4 attachment mount hole. With suction cups, the product can be easily mounted to anywhere. For instance: this charger can be mounted to the car's shield window.

Note: customized configuration could be on Request!

Part #: 9076, Solar Charger Portable Power Bank Round Basement

MOQ: 1,000 pieces

Unit Price Based on MOQ: USD 4.55

Size: diameter 115mm, thickness 15mm

Weight: 200 g

Battery Type: 18650

Battery Capacity: 1,800 mah

Solar Panel Type: Mono

Solar Panel Power: 0.6W0.12A

Input USB: 5V1A

Output USB: 5V1A



Features:

*Made of ABS material.

*The USB ports are well protected, to further keep them away from water and safe.

*Solar panel: this is much customized; we can do poly, mono, or Sunpower.

*USB output: this is fit for most main smart phones on the market.

*Attachment mount design: product gets 3 attachment mount hole. With suction cups, the product can be easily mounted to anywhere. For instance: this charger can be mounted to the car's shield window.

Note: customized configuration could be on Request!

Part #: 9084, Solar Charger Portable Power Bank

MOQ: 800 units

Unit Price based on MOQ: USD 17.15

Parameter:

- *Battery Type: Li-Polymer Battery
- *Capacity: 10,000mAh
- *Input: 5V/2.0A
- *Output: 5V/2X 2.4A
- *Product Dimension: 170*75*23 mm
- *Product Weight: 320 g
- *Solar Panel: 5.5V/1.5W
- *AC charging time: about 6-7 hours
- *Color: On request
- *LED: 4W(420LUX)

Features:

- *Made of eco-friendly silicone rubber and ABS + PC material, and with rubber paint surface process.
- *Football grain design has anti-skid protecting effect. Water resistant design ensures the device functions smoothly when it's raining; Shock-proof feature ensures the device work properly even it crashes or drops.
- *With the free hook included, you may hang it on your backpack for long flights, road trips, hiking, camping, or such, handy to carry and charge by solar.
- *The USB ports are well water proof, and safe to charge smart phones, tablets, or any other 5V USB-charged devices.
- *Please kindly note that it's comparatively slow for the solar charger to recharge itself via solar power, due to the limited surface of the solar panel.

Note: customized configuration could be on Request!



Part #: 9086, Solar Charger Portable Power Bank

MOQ: 500 pieces

Unit Price based on MOQ: USD 3.75

Parameter:

*Battery Type: Li-Polymer Battery

*Capacity: 5500mAh

*Input: 5V/1A

*Output: 5V/1A, 5V/2A

*Product Dimension: 142*75*13.6 mm

*Product Weight: 155 g

*Solar Panel: 5.5V/1.2W

*AC charging time: about 7.5 hours

*Color: On request

Package including:

*1 x Solar Charger

*1 x Hook

*1 x Micro USB cable

Features:

*Made of eco-friendly silicone rubber and ABS + PC material, and with rubber paint surface process.

*Football grain design has anti-skid protecting effect. Water resistant design ensures the device functions smoothly when it's raining; Shock-proof feature ensures the device work properly even it crashes or drops.

*With the free hook included, you may hang it on your backpack for long flights, road trips, hiking, camping, or such, handy to carry and charge by solar.

*The USB ports are well protected by rubber caps, to further keep them away from water and safe to charge smart phones, tablets, or any other 5V USB-charged devices.

*Please kindly note that it's comparatively slow for the solar charger to recharge itself via solar power, due to the limited surface of the solar panel.



Part #: 9092, Multi-Function Solar Power Supply

MOQ: 100 Pieces

Unit Price based On MOQ: USD 41.00

Solar Panel Input: 25W

M4 Connector Input: can connect to extra solar panels, AC power source, or DC power bank

AC Output: 220V x4

DC Output: 12V Car Adapter x1

Battery: 40AH

LED Lights: 15W x2

Customized printing: on request

HAS Hardware™
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Other Solar Applications

Part #: 9085, Solar Charger with Motion Detector LED

MOQ: 500 pieces

Unit Price based on MOQ: USD 15.90

Parameter:

- *Battery Type: Li-Polymer Battery
- *Capacity: 20,000mAh
- *Input: 5V/1A
- *Output: 5V/1.0A and 2.1A
- *Product Dimension: 135*116*22 mm
- *Product Weight: 210 g
- *Solar Panel: 5.5V/2.5W
- *AC charging time: about 8-9 hours
- *Color: On request

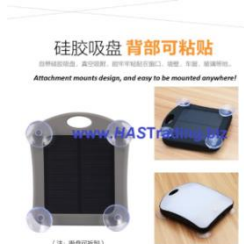
Package including:

- *1 x Solar Charger
- *4 x Suction Cup
- *1 x Hook
- *1 x Micro USB cable
- *1 x Manual

红外感应示意图

Passive Infrared Motion Detector (mounted as a solar light)





按键
说明

按键说明 一目了然

采用4格精准LED灯显示, 电量清晰明了

Functional Spec



1 LED Light with Motion Detector	2 Power Button	3 USB Input
4 Battery Indicator	5 USB Output 1.0A	6 USB Output 2.1A
7 Power Button for LED Light	Front LED Light with Motion Detector	Back Solar Panel

① 人体感应灯	② 电源开关	③ 电源输入接口
④ 电量指示灯	⑤ USB输出1.0	⑥ USB输出2.1
⑦ LED灯开关	正面 LED灯	背面 太阳能充电板

电量指示灯亮灯含义



Features:

*Made of eco-friendly silicone rubber and ABS+PC material, and with rubber paint surface process.

*Water resistant design ensures the device functions smoothly when it's raining; Shock-proof feature ensures the device work properly even it crashes or drops.

*The USB ports are well protected by rubber caps, to further keep them away from water and safe.

*High efficiency solar panel: when the charger is charged by solar power, the charger can charge other device at the same time.

*2 USB output: one is 5v 1.0A, the other port is 5v 2.1A. Can charge 2 devices at the same time. Able to charge smart phones, tablets, or any other 5V USB-charged devices.

*Attachment mount design: product gets 4 attachment mount hole. With suction cups, the product can be easily mounted to anywhere. For instance: this charger can be mounted to the car's shield window.

*Passive Infrared Motion Detector LED: this product gets a passive infrared motion detector and a LED light corresponding to the detector. The detector gets 3 meters by 5 meters range, 90-degree look down, and 60-degree spread. When the detector is activated, if a person approaches this detector around 3 meters to 5 meters, the LED light will be lit for 30 seconds. This is ideal to use as a street light or a corridor light.

Note: customized configuration could be on Request!



Part #: 9021, Solar Radar Speedometer

MOQ: 10 Pieces

Unit Price based on MOQ: USD 610.00

Solar Panel: 18v, 50w

Battery: 12v, 34AH

Digital Number: 3

Size: 160x78x7cm

Battery Life: 5 to 7 days

Feature: customized warning printing, can do English, Arabic, and Farsi



Solar Radar Speedometer **PART #9021**

Solar Panel: 18v/ 50w

Battery: 12v/ 34AH

Digital Number: 3

Size: 160x78x7cm

Battery Life: 5~7 days

**Feature: customized waring
printing, can do English,
Arabic, & Persian!**

Part #: 9038, Solar Door Numbers

MOQ: 200 Pieces

Unit Price based on MOQ: USD 5.80

Material: Plastic +stainless steel

Color: silver

Solar panel: Mono

Waterproof: IP44

Battery: 1.2v/600mah

Light source: 2* \AA , 5mm LED

Working time: 8 hours after 6 hour direct sunlight charged

Power: 0.6w

Size: 200*180*30mm/7.86*7.07*1.18"(L*W*H)

Net weight: 524.5g/18.5oz



Part #: 9043, Solar Car Window Cooler Vent

MOQ: 500 Pieces

Unit Price based On MOQ: USD 10.98

Size: 220mm*65mm*110mm

Weight: 720 grams

Material: ABS

Speed: 4500 turn.

Power: 1.5W

Voltage: 2.4V

Current: 1600 Ma

Color: white, black



*Solar panels expose super-efficient heat dissipation, So that your car is no longer hot, But also to eliminate the car under the high temperature of toxic gases.

*High efficiency three turbine exhaust fan 3500 turns per minute.

*The effectiveness of solar panels is guaranteed for 10 years.

*Integrated window hanging is no plug electricity, no installation line, and no damage to vehicles.

*Reduce the vehicles high temperature cooling time, reduce the consumption of cooling fuel and slow down the aging rate of interior parts.

Note: customized configuration could be on Request!



Part #: 9041, Solar Bluetooth Speaker

MOQ: 500 units

Unit Price based on MOQ: USD 18.00

Bluetooth Version: V5.0

Output Power: 12W (Dual 6W Driver & Bass Enhancement)

USB Input: 5V/ 1A

Solar Input: 2.5W

Battery: 3.7 V/ 5,000 mAh

Battery Charge Time: 5 hours(USB charge)

Playtime: Up to 50 hours (varies by volume level and audio content)

Audio input: Bluetooth / AUX / TF

Audio File Format: APE、MP3、WMA.WAV.FLAC

Connection Range: 10m-15m

Package Included:

1* Bluetooth Speaker

1* Micro USB Cable

1* Black Lanyard

1* User Manual

Note: customized configuration could be on Request!



Part #: 9088, Solar Light Circuit with Silver Reflector

MOQ: 5,000 Pieces

Unit Price based On MOQ: USD 0.96

Solar Panel:

Dimensions: 105mm x105mm

Type: Mono-crystalline, Sunpower branded

Power: 0.66w

Operating Current: 120ma

Open Circuit Voltage: 5.5V

Surface Treatment: laminated



LED:

Type: 3528, white

Number: 12 Pieces

Battery:

Type: Lithium Polymer

Capacity: 1000mAh

Nominal Voltage: 3.7V

Charge Voltage: 4.2+/- .25V

Discharge Cutoff: 3.0V

Dimensions: 6mm x 40mm x 45mm



Note: customized configuration could be on Request!

Solar System Accessories

Part #:9054, Solar Inverter, 3kw

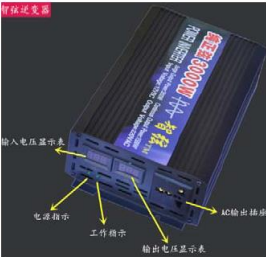
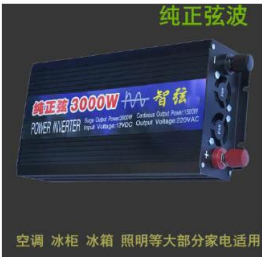
MOQ: 50 pieces

Unit Price Based on MOQ: USD 128.00

PRODUCT SPECIFICATION

Type Of Module	9054
Type	Solar inverter
Output voltage waveform	Pure sine wave
Power(Peak Power)	3000w
Output voltage	220v
Input voltage	12v/24v/48v(Not selectable)
Output frequency	50Hz
Conversion rate	93% or more
Size	30*15*8 CM
Weight	2.2 KGs

PRODUCT PICTURES



Part #:2887, Solar Inverter, 10kw

MOQ: 10 Pieces

Unit Price based on MOQ: USD 2,895.00

DC input data

Max. recommended PV power(for module STC): 10,400W

Max. DC voltage: 1,000V

Start Voltage: 160V

MPP voltage range / normal voltage: 160V-1,000V / 600V

MPP voltage range at full power: 400-850V

Max. input current per string: 12A/12A

Number of MPP trackers/ strings per MPP tracker: 2/1

AC output data (On-grid)

Rated AC output power: 8,000W

Max. AC apparent power: 8,000VA

Max. output current: 12A

AC nominal voltage: 230V/400V

AC grid frequency: 50/60Hz

Power factor: 0.8leading -0.8laging

THDi: <3%

AC grid connection type: 3/N/PE

AC output data (Backup)

Max. AC output power: 6,000W

Rated AC output voltage: 230V/400V

Rated AC output frequency: 50/60Hz

THDv: <3%

Switch time: 0.5S

Battery data

Battery voltage range: 160~550V



Max charging voltage: 550V
Recommended battery voltage: 400V
Max charging and discharging current: 20A
Max charging and discharging power: 8,000W
Type of battery: Lithium
Deep of discharging: 80%DOD / 50%DOD
Capacity of battery: 5~50kWh

Efficiency

Max. efficiency: 98.2%
Euro European efficiency: 97.4%
MPPT efficiency: 99.5%
Battery charge/discharge efficiency: 97.4%

Protection functions

DC switch, DC reverse polarity protection, PV overvoltage protection, Battery reverse protection, Output over current protection, Output AC overvoltage Protection-Varistor, Ground fault monitoring, Grid monitoring, Integrated all-pole sensitive leakage current monitoring unit

General data

Dimensions (W / H / D) in mm: 423/505/198
Weight: 27kg
Operating temperature range: -25C~+60C
Noise emission (typical): ≤ 35 dB(A)
Altitude: 3,000m
Self-consumption night: <7W
Topology: Transformer less
Cooling concept: Natural
Environmental Protection Rating: IP65
Relative humidity: 0...100%

Part #:2886, Solar Inverter, 15kw

MOQ: 10 Pieces

Unit Price based on MOQ: USD 3,130.00

DC input data

Max. recommended PV power(for module STC): 15,600W

Max. DC voltage: 1,000V

Start Voltage: 160V

MPP voltage range / normal voltage: 200V-1,000V / 600V

Max. input current per string: 20A/10A

Number of MPP trackers/ strings per MPP tracker: 2/2+1

AC output data (On-grid)

Rated AC output power: 13KW

Max. AC apparent power: 14.3KVA

Max. output current: 20.6A

AC nominal voltage: 230V/400V; 320V-478V

AC grid frequency: 50/60Hz

Power factor: 0.8leading -0.8laging

THDi: <3%

AC grid connection type: 3W + N + PE

Efficiency

Max. efficiency: 98.4%

Euro European efficiency: 98%

MPPT efficiency: 99.5%

Protection Functions

DC switch, DC reverse polarity protection, Output over current protection, Output AC overvoltage Protection-Varistor, Ground fault monitoring, Grid monitoring, Integrated all-pole sensitive leakage current monitoring unit



General data

Dimensions (W / H / D) in mm: 480/480/200

Weight: 23.5kg

Operating temperature range: -25C~+60C

Noise emission (typical): ≤ 35 dB(A)

Altitude: 3,000m

Self-consumption night: <0.5W

Topology: Transformer less

Cooling concept: Natural

Environmental Protection Rating: IP65

Relative humidity: 0...100%



Part #:2885, Solar Inverter, 21.5kw

MOQ: 10 Pieces

Unit Price based on MOQ: USD 3,530.00

DC input data

Max. recommended PV power(for module STC): 21,250W

Max. DC voltage: 1,000V

Start Voltage: 250V

MPP voltage range / normal voltage: 200V-1,000V / 580V

Max. input current per string: 37.5A/37.5A

Number of MPP trackers/ strings per MPP tracker: 2/3

AC output data (On-grid)

Rated AC output power: 17KW

Max. AC apparent power: 18.8KVA

Max. output current: 27.5A

AC nominal voltage: 230V/400V; 340V-440V

AC grid frequency: 50/60Hz

Power factor: 0.8leading -0.8laging

THDi: <3%

AC grid connection type: 3W + N + PE

Efficiency

Max. efficiency: 98.7%

Euro European efficiency: 98.4%

MPPT efficiency: 99.5%

Protection Functions

DC switch, DC reverse polarity protection, Output over current protection, Output AC overvoltage Protection-Varistor, Ground fault monitoring, Grid monitoring, Integrated all-pole sensitive leakage current monitoring unit



General data

Dimensions (W / H / D) in mm: 470/754/270

Weight: 48kg

Operating temperature range: -25C~+60C

Noise emission (typical): ≤ 40 dB(A)

Altitude: 4,000m

Self-consumption night: <1W

Topology: Transformer less

Cooling concept: Smart cooling

Environmental Protection Rating: IP65

Relative humidity: 0...100%



Part #:2884, Solar Inverter, 31.5kw

MOQ: 10 Pieces

Unit Price based on MOQ: USD 3,680.00

DC input data

Max. recommended PV power(for module STC): 31,250W

Max. DC voltage: 1,000V

Start Voltage: 250V

MPP voltage range / normal voltage: 200V-1,000V / 580V

Max. input current per string: 37.5A/37.5A

Number of MPP trackers/ strings per MPP tracker: 2/3

AC output data (On-grid)

Rated AC output power: 25KW

Max. AC apparent power: 27.7KVA

Max. output current: 40.3A

AC nominal voltage: 230V/400V; 340V-440V

AC grid frequency: 50/60Hz

Power factor: 0.8leading -0.8laging

THDi: <3%

AC grid connection type: 3W + N + PE

Efficiency

Max. efficiency: 98.7%

Euro European efficiency: 98.4%

MPPT efficiency: 99.5%

Protection Functions

DC switch, DC reverse polarity protection, Output over current protection, Output AC overvoltage Protection-Varistor, Ground fault monitoring, Grid monitoring, Integrated all-pole sensitive leakage current monitoring unit



General data

Dimensions (W / H / D) in mm: 470/754/270

Weight: 48kg

Operating temperature range: -25C~+60C

Noise emission (typical): ≤ 40 dB(A)

Altitude: 4,000m

Self-consumption night: <1W

Topology: Transformer less

Cooling concept: Smart cooling

Environmental Protection Rating: IP65

Relative humidity: 0...100%



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