

OPTONICA SOLAR



CATALOGUE
2027

SOLAR POWER SYSTEMS



What components does the solar system consist of?

Solar panel installations are very straightforward systems. There are only four main components to any solar panel system, and no moving parts, making them very efficient to install and maintain. The four components of a solar panel system are:

Solar photovoltaic panels - to convert solar energy into electricity

Battery - to store DC electricity

Inverters - to convert DC electricity into AC electricity

Racking and mounting systems - to affix your solar panels to your roof (or to the ground, depending upon your installation type)

Performance monitoring systems - to track and monitor the output and health of your solar panels and inverters

DESIGN AND CONSTRUCTION OF SOLAR POWER SYSTEMS

The photovoltaic panels we offer are designed to be highly efficient and with long service life, which makes them a great choice for those who want to invest in renewable energy for homes or your business.

Green energy solutions



How does solar power work?

Solar power works by converting energy from the sun into power. There are two forms of energy generated from the sun for our use – electricity and heat.

Both are generated through the use of solar panels, which range in size from residential rooftops to 'solar farms' stretching over acres of rural land.

Is solar power a clean energy source?

Yes, solar power is a renewable and infinite energy source that creates no harmful greenhouse gas emissions – as long as the sun continues to shine, energy will be released.

The carbon footprint of solar panels is already quite small, as they last for 25 years plus with no loss in efficiency. And the materials used in the panels are increasingly recycled, so the carbon footprint will continue to shrink.

When was solar power discovered?

Solar energy was used by humans as early as the 7th century B.C., when humans used sunlight to light fires by reflecting the sun's rays onto shiny objects. Later, in 3rd century B.C., the Greeks and Romans harnessed solar power with mirrors to light torches for religious ceremonies.

In 1839 and at the age of just 19, French physicist Edmond Becquerel discovered the photovoltaic (PV) effect while experimenting with a cell made of metal electrodes in a conducting solution. He noted that the cell produced more electricity when it was exposed to light – it was a photovoltaic cell.

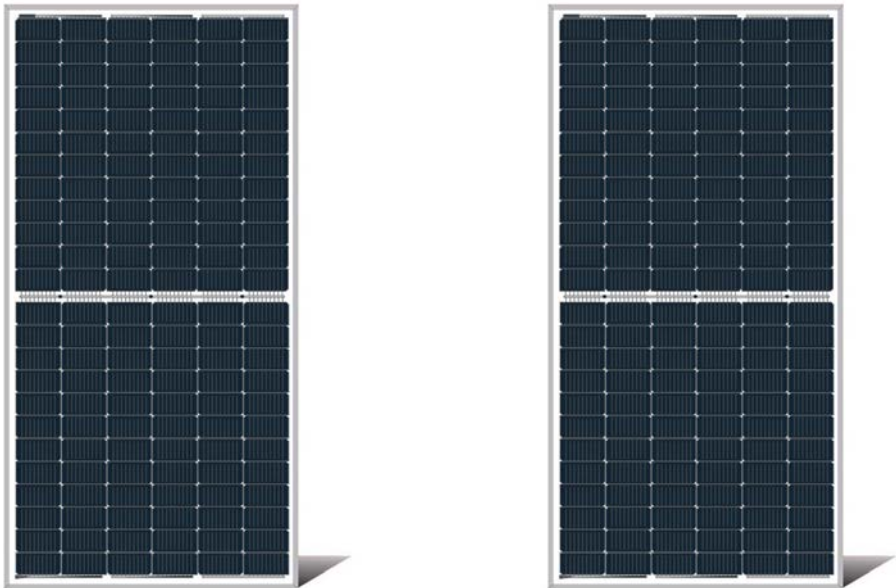
In 1954 PV technology was born when Daryl Chapin, Calvin Fuller and Gerald Pearson developed the silicon PV cell at Bell Labs in 1954 – the first solar cell capable of absorbing and converting enough of the sun's energy into power to run everyday electrical equipment. Today satellites, spacecraft orbiting Earth, are powered by solar energy.

How exactly is electricity from solar energy produced?

Solar panels are usually made from silicon installed in a metal panel frame with a glass casing. When photons, or particles of light, hit the thin layer of silicon on the top of a solar panel, they knock electrons off the silicon atoms.

This PV charge creates an electric current (specifically, direct current or DC), which is captured by the wiring in solar panels. This DC electricity is then converted to alternating current (AC) by an inverter. AC is the type of electrical current used when you plug appliances into normal wall sockets.

LONGI



PV SOLAR PANELS

NEW

Monocrystalline - MC4 Cables



LONGI Solar Panel
Silver Frame 450Wp

LONGI Solar Panel
Silver Frame 455Wp

PV Model	LR4-72HPH-450M	LR4-72HPH-455M
Rated Max Power	450Wp	455Wp
Voltage Pmax Vmp	41.5V	41.7V
Current Pmax IMP	10.85A	10.92A
Open-Circuit Current Voc	49.3V	49.5V
Short-Circuit Current Isc	11.6A	11.66A
Maximum Voltage	1500V	1500V
Maximum Fuse Rating	20A	20A
Module Efficiency STC	20.7%	20.9%
Dimmensions	2094x1038x35mm	2094x1038x35mm
SKU	9706	9709



PORTABLE SOLAR PANEL

Monocrystalline - Foldable



Power	120Wp	200Wp	400Wp
Output 1	MC4 18V/6.6A Max	MC4 18V/11.1A Max	MC4 36V/6.6A Max
Output 2	USB-A QC 3.0 24W Max	USB-A QC 3.0 24W Max	-
Output 3	Type-C PD45W Max	Type-C PD45W Max	-
Material	ETFE-Film	ETFE-Film	ETFE-Film

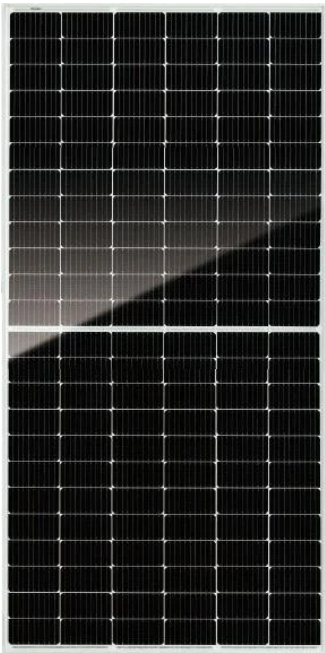
Intelligent charging chip

SKU	9400	9401	9402
Power	120Wp	200Wp	400Wp



SKU	9424	SKU	9425	SKU	9426	SKU	9427
MC4 Convert to Anderson		MC4 Convert to DC5525		Anderson convert to DC5525		Y Branch Connector 1 to 2 MC4Y2	





PV SOLAR PANELS - N TYPE

Monocrystalline - MC4 Cables



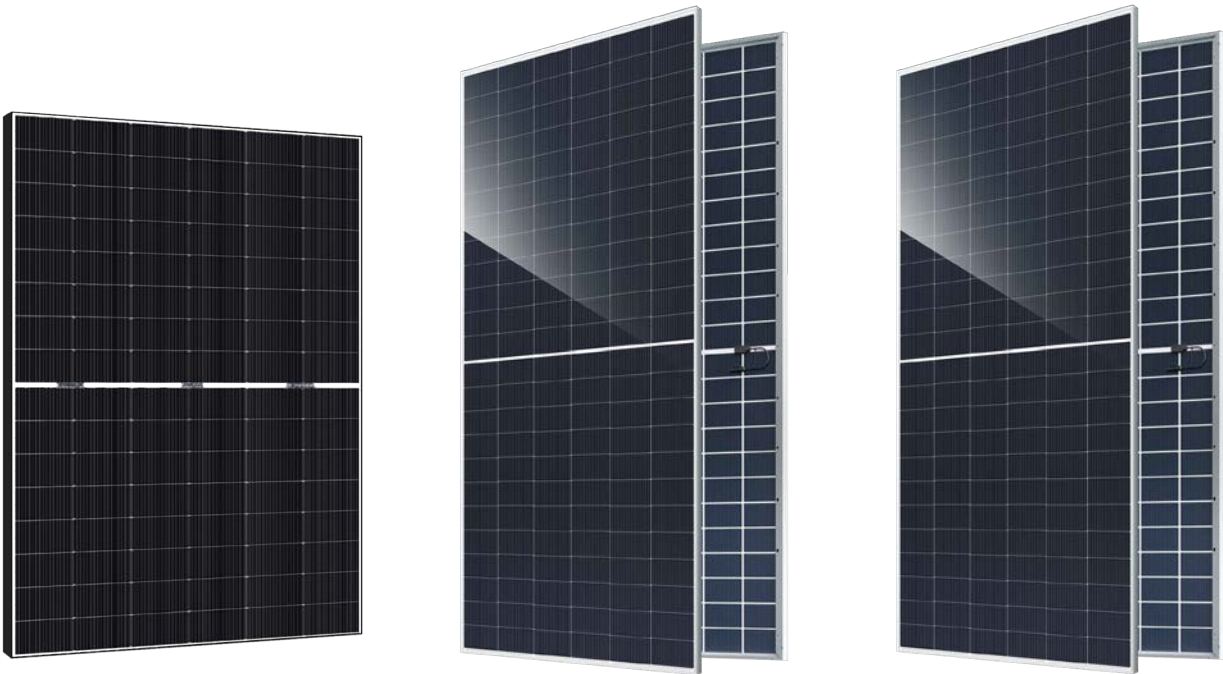
	MONO HALF-CUT MODULE BLACK FRAME	MONO HALF-CUT MODULE SILVER FRAME
	MBB 182mm Cell	MBB 166mm Cell
PV Model	UL-405-108HV	UL-455M-144HV
Rated Max Power	405Wp	455Wp
Voltage Pmax Vmp	31.3V	41.1V
Current Pmax IMP	12.94A	11.07A
Open-Circuit Current Voc	37.3V	49.9V
Short-Circuit Current Isc	13.69A	11.64A
Maximum Voltage	1500V	1500V
Maximum Fuse Rating	25A	25A
Module Efficiency STC	20.74%	20.93%
Dimmensions	2279x1134x35mm	2094x1038x35mm
SKU	9411	9410



Lower LCOE
Lower shading and resistive loss
Lower temperature coefficient



Anti-PID(potential induced degradation)
Passed anti-PID test under 85% damp heat,
85% relative humidity for 96 hours



PV SOLAR PANELS P-TYPE

Monocrystalline - MC4 Cables



BIFACIAL BLACK FRAME
N-TYPE TOPCON

BIFACIAL SOLAR PANEL
N-TYPE TOPCON

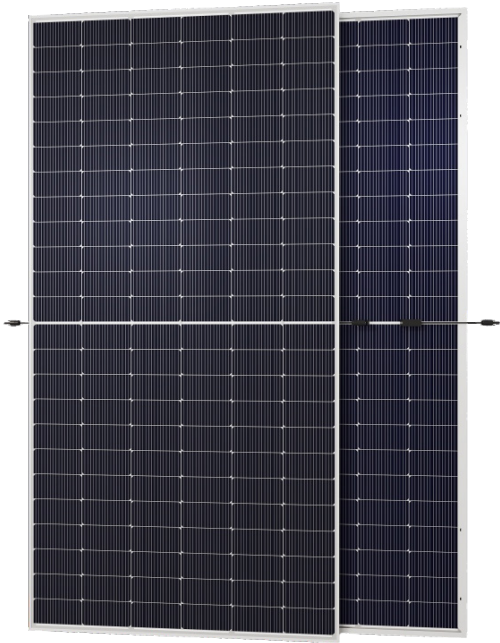
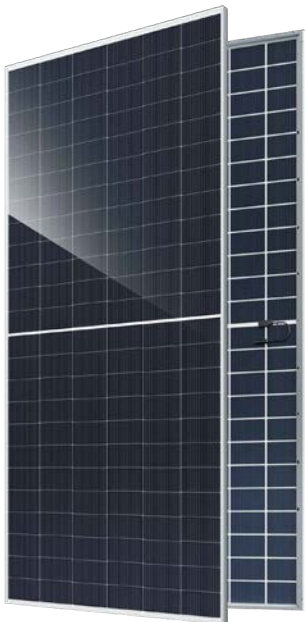
HYPER-ION BIFACIAL
N-TYPE TOPCON HDJ HJT

PV Model	SPDG450-N96R12	SPDG580-N144M10	RSM132-8-690-715BHDG
Rated Max Power	450Wp	580Wp	700Wp
Voltage Pmax Vmp	29.93V	42.56V	49.83V
Current Pmax IMP	15.04A	13.63A	17.82A
Open-Circuit Current Voc	35.8V	51.43V	41.78V
Short-Circuit Current Isc	15.9A	14.34A	16.77A
Maximum Voltage	1500V	1500V	1500V
Maximum Fuse Rating	30A	25A	25A
Module Efficiency STC	22.52%	22.44%	22.5%
Dimmensions	1762x1134x30mm	2279x1134x35mm	2384x1303x33mm
SKU	9416	9710	9415

- Double glass
- Black frame
- Bifacial Transparent

PID phenomenon is minimized through battery

- Ultra-high bifacial factor
- Excellentanti-LID &anti-PID performance
- No B-O caused LID



PV SOLAR PANELS - OSDA

NEW

Monocrystalline - MC4 Cables



	OSDA Bifacial Solar Panel N-Type Topcon 450Wp	OSDA Bifacial Solar Panel N-Type Topcon 590Wp	OSDA Bifacial Solar Panel N-Type Topcon 620Wp	OSDA Bifacial Solar Panel N-Type Topcon 720Wp
PV Model	ODA450-27V-MHD	ODA590-36V-MHD	ODA-132MHDRz	ODA720-33V-MHD
Rated Max Power	450Wp	590Wp	620Wp	720Wp
Voltage Pmax Vmp	33.79V	44.87V	40.74V	49.83V
Current Pmax IMP	13.32A	13.15A	15.29A	17.82A
Open-Circuit Current Voc	39.75V	52.79V	49.28V	41.78V
Short-Circuit Current Isc	14.02A	13.97A	16.08A	16.77A
Maximum Voltage	1500V	1500V	1500V	1500V
Maximum Fuse Rating	25A	25A	35A	25A
Module Efficiency STC	23.04%	22.84%	23%	22.5%
Dimmensions	1722x1134x30mm	2278x1134x30mm	2382x1134x30mm	2384x1303x33mm
SKU	9703	9704	9408	9707

SKU 9451

PV Cable - 100m - 4mm²



SKU 9453

PV Cable - 100m - 6mm²



SKU 9452

PV Cable - 100m - 4mm²



SKU 9454

PV Cable - 100m - 6mm²



SKU 9459

Grounding Cable - 100m - 4mm²



SKU 9433

1.5M 4MM2 WITH MC4



SKU 9457

Y-BRANCH 1500V, 30A -3Y



SKU 9458

Y-BRANCH 1500V, 30A -4Y



SKU 9455

MC4 1to1 1000v, 30A



SKU 9456

MC4 1to1 1500v, 30A



SKU 9434

END CAP FOR MALE CONNECTOR



SKU 9432

BC01 AND SCHUKO PLUG



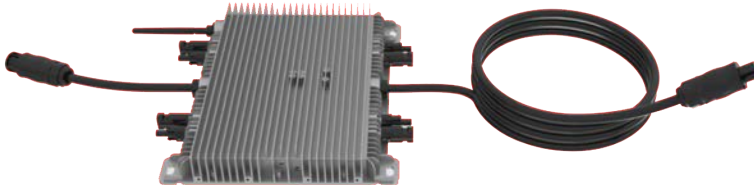
MICRO INVERTER

OUTPUT - 600W

Input: 2*MC4 / PV 2*210-400W
Output: 230Vac 600W
MPPT: 25-55V 2*13A
Unit: 212x230x40mm 3.15kg

SKU 9431

Deye



HYBRID SOLAR AIR CONDITIONERS

NEW

AC/DC - R32

*PV Solar Panels NOT Included


Hybrid Solar


DC Inverter


Wi-Fi control

PRODUCT
GUARANTEE
UP TO
3
YEARS



SKU	9801	DGWA5-ACDCBLW-12KR2	DEYE HYBRID SOLAR/ACDC AIR CONDITION 12000BTU WIFI-CONTROL
SKU	9802	DGWA5-ACDCBLW-18KR2	DEYE HYBRID SOLAR/ACDC AIR CONDITION 18000BTU WIFI-CONTROL
SKU	9803	DGWA5-ACDCBLW-24KR2	DEYE HYBRID SOLAR/ACDC AIR CONDITION 24000BTU WIFI-CONTROL

Build in Solar MPPT

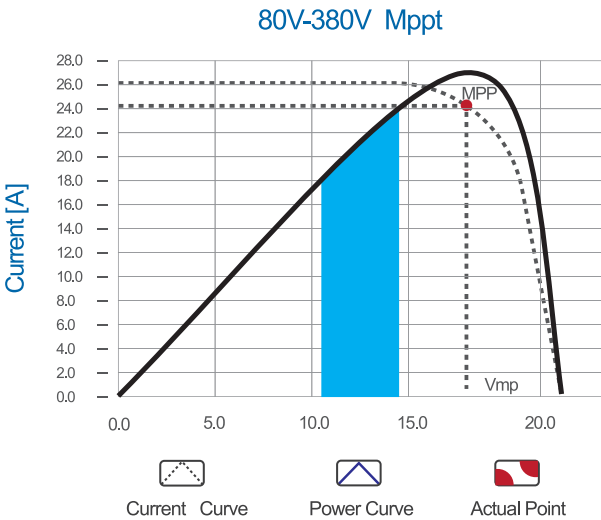
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Intelligent control for detection and adjustment
- 

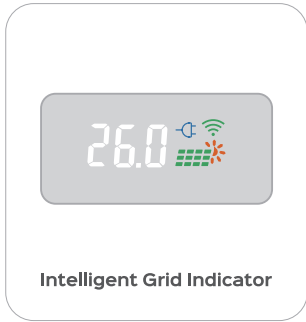
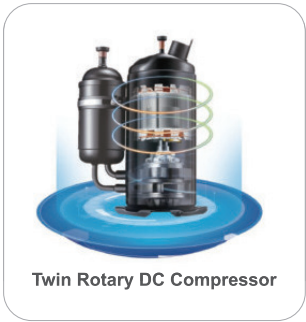
Efficiency:99.9%
- 

DC to DC 0 convert lose
- 

10+ years life design



MODEL		12K	18K	24K
		DGWA5-ACDCBLW-12KR2	DGWA5-ACDCBLW-18KR2	DGWA5-ACDCBLW-24KR2
Power supply AC	Ph - V - Hz	208V-240V / 50-60Hz		
Power DC, PV Series connection	Max.PV Input Voltage (V)	380	380	410
	Start-up Voltage (V)	80	80	140
	MPPT Voltage Range (V)	75-360	75-360	120-360
	Full Load MPPT Voltage (V)	200-360	200-360	240-360
	Max.Input Short Circuit Current (A)	20	20	20
	Max.Operating PV InputCurrent (A)	13	13	15
	No.of MPP Trackers/No. ofStrins per MPP Tracker	1/1	1/1	1/1
Cooling Capacity	W	3500(800-3900)	5150(1200-5600)	6400(1800-7800)
Cooling power input	W	920(140-1150)	1430(220-2000)	1690(340-2550)
Heating Capacity	W	4000(900-4400)	5150(1200-5300)	7030(1800-7800)
Heating power input	W	1020(150-1350)	1340(220-1450)	1780(320-2190)
EER	W/W	3.80	3.60	3.79
Indoor unit Dimension	(WxHxD) mm	840x205x295	95x310x230	1080x330x237
Indoor unit Packing	(WxHxD) mm	920x290x360	1045x376x326	1140x362x300
Outdoor unit Dimension	(WxHxD) mm	802x564x323	802x564x323	900x700x337
Outdoor unit Packing	(WxHxD) mm	910x622x405	910x622x405	1006x755x418



100% Eco
Up to 100% Savingin day time



Grid AC Power Limiter
Limit AC power from 0-300W



Savings
No Inverter battery,or Charger controller needed



Wide Operating Temperature
Temperature Range between -10 to +60°C



Max Efficiency
DC-driven



Auto Balance
AC/DC auto balance



HYBRID SOLAR MULTI-SPLIT SYSTEMS

NEW

AC/DC - R32

*PV Solar Panels NOT Included



INDOOR UNIT

SKU	9823	DMGA1-ACDC-12KR2	DEYE HYBRID SOLAR/ACDC MULTI ZONE 12000BTU WIFI-CONTROL
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OUTDOOR UNIT

SKU	9821	DW3B1-ACDC-27KR2	DEYE HYBRID SOLAR/ACDC MULTI ZONE 27000BTU WIFI-CONTROL
SKU	9822	DW4E1-ACDC-36KR2	DEYE HYBRID SOLAR/ACDC MULTI ZONE 36000BTU WIFI-CONTROL



Hybrid Solar



Build in Solar MPPT



180° sine wave controller technology



Auto restart



Max Efficiency DC - driven



Preheat Functioni



Hybrid Solar



WiFi Control



Energy Saving



100% Eco Up to 100% Saving in day time

Outdoor Unit

DC INVERTER MODEL		
System Format		
Power supply AC		V/ Ph / Hz
Power Supply DC PV String Input Data	Voc	
	Max PY (DC) Input Current (A)	
	Max PY ISC(A)	
	No of MPP Trackers	
	No of Strings per MPP Tracker	
Capacity	Cooling	BTU/h
		kW
	Heating	BTU/h
		kW
Electric Data	Cooling Power Input	W
	Heating Power Input	W
	Rated Current (cooling)	A
	Rated Current (heating)	A
Performance	SEER/SCOP	W/W
	Energy Rate	
	EER/COP	W/W
	Sound Pressure Noise Level	dB(A)
	Sound Power Noise Level	dB(A)
Performance	Net(W+D+H)	mm
	Packing (W+D+H)	mm
Weight	Net/Gross	kg

27K

DW3B1-ACDC-27KR2 (EU)	
Max indoor 12k -2pcs	
AC220-240/1/50	
DC 100-410V	
14A	
22A	
1	
1	
27000 (7800-29700)	
7.9 (2.3-8.70)	
28000 (8400-31000)	
8.2 (2.46-9.09)	
2440 (5603400)	
2210 (560-3400)	
10.72	
9.71	
6.1/4.0	
A++/A+	
3.23/3.71	
58	
68	
888x318x700	
1006x418x755	
52.5/56.5	

36K

DW4E1-ACDC-36KR2 (EU)	
Max indoor 12k -3pcs	
AC220-240/1/50	
DC100-400/1/50	
14+14A	
22+22A	
2	
1	
35800 (8500-41300)	
10.5 (2.5-12.1)	
37500 (9100-41000)	
110 (26.7-12.0)	
3250 (6803750)	
2890 (530-3200)	
14.28	
12.71	
6.15/4.0	
A++/A+	
3.23/3.80	
60	
70	
942x375x844	
1085x430x1035	
87/74	

Indoor Unit

Model		
Capacity	Cooling	BTU/h
	Heating	BTU/h
Electric Data	Power Supply	V
	Power Input	W
Performance	Air Flow Volume	CFM
		m3/h
	Power Input	dB(A)
Dimension	Net(W+H+ D)	mm
	Packing(W+H+D)	mm
Weight	Net	kg
	Gross	kg
Pipe Diameter	Liquid Side	mm
	Gas Side	mm
	Drainage	mm

12K

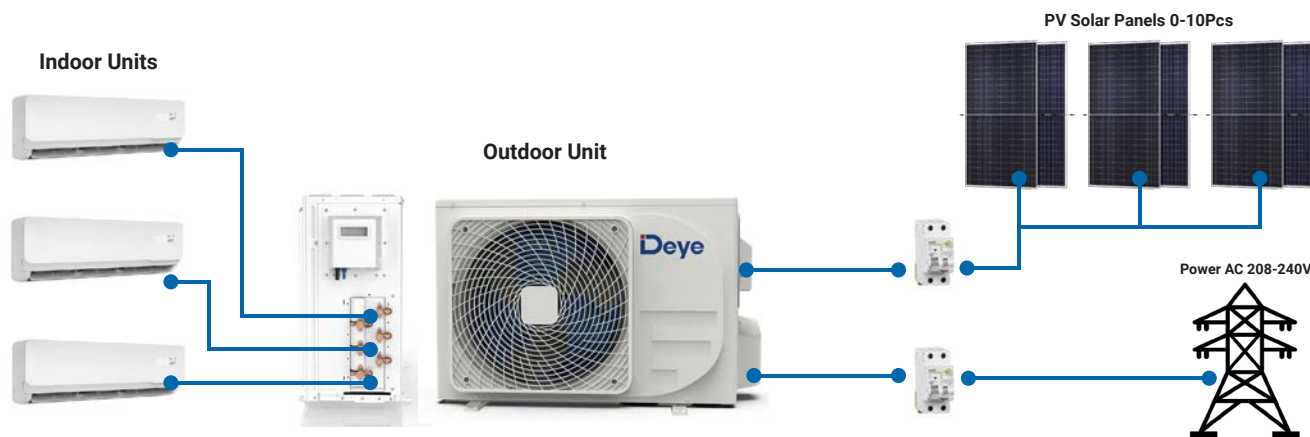
DMGA1-ACDC-12KR2(EU)	
12000	
12300	
DC 290-380V	
20	
365	
620	
42.5	
840x205x295	
920x290x360	
9.5	
11.8	
6.35(1/4)	
9.52(3/8)	
16.9	

27K Outdoor 3 Zones Indoor Max

1 Unit	2 Units	3 Units
18	12+12	9+9+9
-	12+18	9+9+19
-	18+18	12+12+12

36K Outdoor 4 Zones Indoor Max

2 Unit	3 Units	4 Units
12+12	12+12+12	9+9+9+9
12+18	12+12+18	12+12+12+12
12+24	12+12+24	12+12+12+18



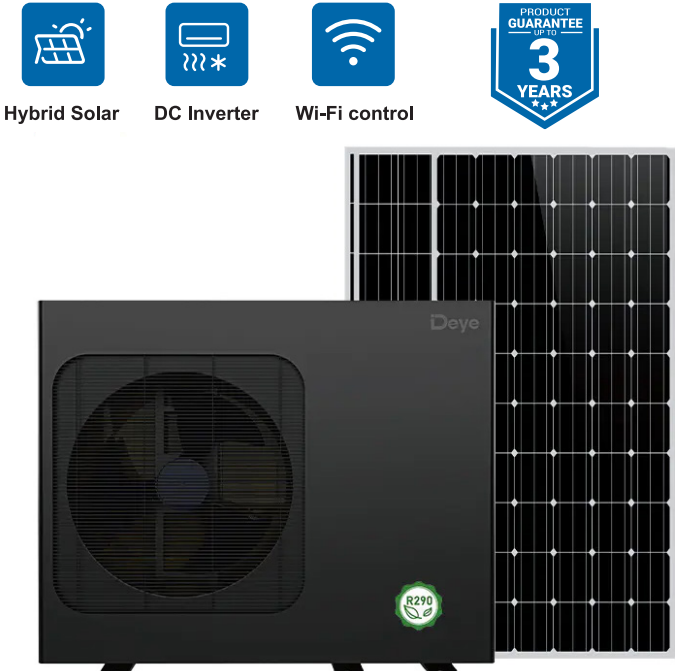
SOLAR HEAT PUMP HYBRID AC/DC

MONOBLOCK - R290

NEW

*PV Solar Panels NOT Included

Deye



Build in Solar MPPT

High-Efficiency EER A+++

A solar heat pump monoblock (Hybrid ACDC) is an advanced heating and cooling system that integrates solar energy with heat pump technology in a single, compact unit. It is used for various applications, primarily focusing on energy-efficient heating and cooling solutions for residential and commercial buildings.

SKU	9851	DAWG1-ACDC-083EP	AIR TO WATER HEAT PIMP R290 / 8KW - 1 Phase
SKU	9852	DAWG1-ACDC-10R3EP	AIR TO WATER HEAT PIMP R290 / 10KW - 1 Phase
SKU	9853	DAWG1-ACDC-12R3EP	AIR TO WATER HEAT PIMP R290 / 12KW - 1 Phase
SKU	9854	DAWG1-ACDC-16R3EP	AIR TO WATER HEAT PIMP R290 / 16KW - 1 Phase
SKU	9855	DAWG1-ACDC2-12R3EP	AIR TO WATER HEAT PIMP R290 / 12KW - 3 Phase
SKU	9856	DAWG1-ACDC2-16R3EP	AIR TO WATER HEAT PIMP R290 / 16KW - 3 Phase

- Space Heating:**
- Provides efficient heating for residential and commercial buildings.
 - Suitable for underfloor heating, radiators, and fan coils.
- Cooling:**
- Can also function as an air conditioner, providing cooling during warmer months.
- Domestic Hot Water:**
- Heats water for domestic use, including showers, baths, and household chores.
- Integrated Solar Panels:**
- Equipped with solar panels to harness solar energy, reducing reliance on grid electricity.
- Monoblock Design:**
- All components, including the compressor, evaporator, condenser, and expansion valve, are contained in a single unit.
 - Compact design simplifies installation and maintenance.
- Inverter Technology:**
- Uses inverter technology to adjust the compressor speed according to demand, improving energy efficiency and reducing operational costs.



			8kW	10kW	12kW	16kW	12kW	16kW
MODEL			DAWG1-ACDC-083EP	DAWG1-ACDC-083EP	DAWG1-ACDC-083EP	DAWG1-ACDC-083EP	DAWG1-ACDC-083EP	DAWG1-ACDC-083EP
Power supply AC			AC 220-240/1Ph 50/60Hz			AC 380-415/3Ph 50/60Hz		
Cooling (A35W18)	Capacity	KW	8.3	10	12	16	12	16
	Rated Input	KW	1.63	2.11	2.67	4.10	2.67	4.10
	EER		5.15	4.75	4.50	3.90	4.50	3.90
Cooling (A35W7)	Capacity	KW	7.5	8.9	11.5	14.0	11.5	14
	Rated Input	KW	2.17	2.74	3.77	5.09	3.77	5.09
	EER		3.45	3.25	3.05	2.75	3.05	2.75
Heating (A7W35)	Capacity	KW	8.4	10	12	15.0	12	15
	Rated Input	KW	1.68	2.13	2.50	3.41	2.50	3.41
	COP		5.00	4.70	4.80	4.40	4.80	4.40
Heating (A7W45)	Capacity	KW	8.2	10	12	15.0	12	15.0
	Rated Input	KW	2.13	2.74	3.24	4.48	3.24	4.48
	COP		3.85	3.65	3.70	3.35	3.70	3.35
Heating (A7W535)	Capacity	KW	7.8	9.5	12	15.0	12	15
	Rated Input	KW	2.44	3.11	3.87	5.26	3.87	5.26
	COP		3.20	3.05	3.10	2.85	3.10	2.85
Seasonal efficiency class	LWT at 35°		A+++	A+++	A+++	A+++	A+++	A+++
	LWT at 55°		A+++	A+++	A+++	A++	A+++	A++
ErP sound power	Monobloc	dB	56	57	57	58	57	58
Net dimension	WxDxH	mm	1283x455x1036			1283x455x1036		1283x455x1036
Packing dimension	WxDxH	mm	1360x545x1222			1360x545x1222		1360x545x1222
Net weight	Monobloc	kg	150			167		187
Gross weight	Monobloc	kg	174			191		210
Refrigerant	Type /GWP		R290/3					
	Colume	kg	1.1			1.43		1.43
MAX Power Input		kW	2.9	3.4	4.8	5.9	4.8	5.9
Operating ambien temp. range	Cooling	C°	-5 / 48					
	Heating	C°	-25 / 35					
	DHW(tank)	C°	-25 / 43					
Setting water temp. range	Cooling	C°	10-30(LWT 5-25)					
	Heating	C°	25 ~ 80					
	DHW(tank)	C°	25 ~ 75					
Water circuit	Piping con.	inch	G1-1/4"					
	Valve Pressure	MPA	0.3					
	Flow switch	m3/h	0.36			0.6		
	Expansion tank volume	L	5					
	Capacity of the back-up heater	kW	3			3		9



All DC Inverter



Automatic Water Temp. Adjustment



R290 ECO



Wi-Fi



Security (Leakage Control)

Smart Heating.
Smart Control.

With the DEYE Cloud Services App, you gain a unified view of your entire home’s energy ecosystem. Monitor heating performance, fine-tune room temperature and hot-water settings, and automate daily heating and cooling routines with ease. Powered by intelligent energy scheduling, the system dynamically allocates power between PV, battery storage, and home loads—maximizing efficiency, lowering energy costs, and ensuring comfort around the clock.

Deye



Scan for more info



HYBRID INVERTERS

High Voltage - THREE PHASE



	10KW	15KW	20KW	25KW	30KW
Model	SUN-10K-SG01 HP3-EU-AM2	SUN-15K-SG01HP3- EU-AM2	SUN-20K-SG01HP3- EU-AM2	SUN-25K-SG01 HP3-EU-AM2	SUN-30K-SG01 HP3-EU-BM3
Battery Voltage Range (V)	160~700	160~700	160~700	160~700	160~800
Max. Charging Current (A)	37	37	37	50	50+50
Max. DC Input Power (W)	13000	19500	26000	40000	39000
Start-up Voltage (V)	180	180	180	180	180
MPPT Range (V)	150-850	150-850	150-850	150-850	150-850
No.of MPP Trackers	2	2	2	3	3
Full Load DC Voltage (V)	325-850	420-850	500-850	700	360-850
PV Input Current (A)	20+20	26+20	26+26	26+26	36+36+36
No.of Strings per MPP Tracker	1+1	2+1	1+2	2/2+2	2+2+2
Rated AC Output Power (W)	10000	15000	20000	25000	30000
AC Output Rated Current (A)	15.2/14.5	22.8/21.8	30.4/29	37.9/36.3	45.5/43.5
Max. AC Output Current (A)	16.7/16	25/24	33.4/31.9	41.7/39.9	50/47.8
Grid Type	Three Phase	Three Phase	Three Phase	Three Phase	Three Phase
Max. Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%
MPPT Efficiency	99.90%	99.90%	99.90%	99.90%	99.90%

SKU

9448

9449

9442

9755

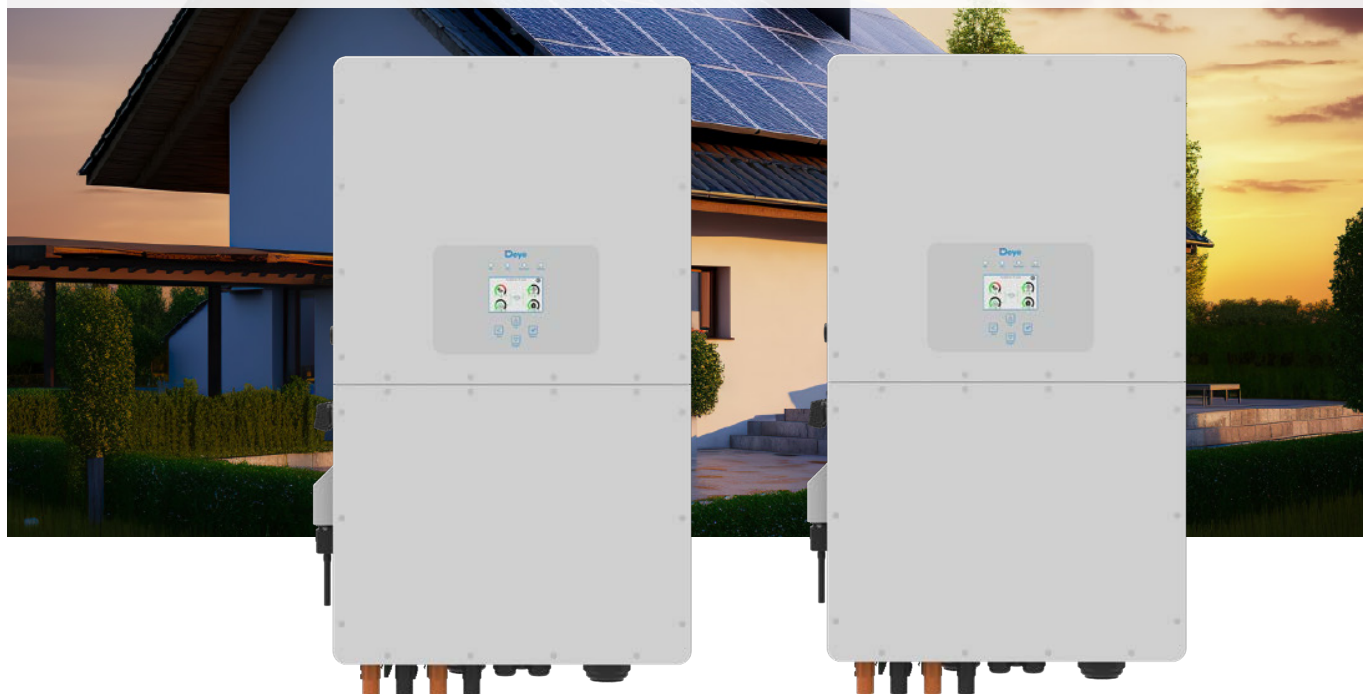
9443

NEW

NEW




Scan for more info


HYBRID INVERTERS

High Voltage - THREE PHASE



	40KW	50KW	80KW	100KW	125KW
Model	SUN-40K-SG01HP3-EU-BM4	SUN-50K-SG01HP3-EU-BM4	SUN-80K-SG02HP3-EU-EM6	SUN-100K-SG02HP3-EU-GM10	UN-125K-SG02HP3-EU-GM10
Battery Voltage Range (V)	160~800	160~800	160~1000	160~1000	160~1000
Max. Charging Current (A)	50+50	50+50	80+80	100+100	100+100
Max. DC Input Power (W)	52000	65000	160000	160000	200000
Start-up Voltage (V)	180	180	180	180	180
MPPT Range (V)	150-850	450-850	150-850	150-850	150-850
No. of MPP Trackers	4	4	6	10	10
Full Load DC Voltage (V)	360-850	450-850	650	650	650
PV Input Current (A)	36+36+36+36	36+36+36+36	36+36+36+36+36+36	42 x 10	42 x 10
No. of Strings per MPP Tracker	2+2+2+2	2+2+2+2	6/2+2+2+2+2+2	63 x 10	63 x 10
Rated AC Output Power (W)	40000	50000	80000	110000	135000
AC Output Rated Current (A)	60.7/58	75.8/72.5	121.3/115.9	151.6/145	189.4/181.2
Max. AC Output Current (A)	66.7/63.8	83.4/79.7	121.3/115.9	166.7/159.5	204.6/195.7
Grid Type	Three Phase	Three Phase	Three Phase	Three Phase	Three Phase
Max. Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%
MPPT Efficiency	99.90%	99.90%	>99%	>99%	>99%

SKU

9761

NEW

9444

9450

9765

NEW

9766

NEW



Scan for more info



HYBRID INVERTERS
Low Voltage - THREE PHASE



	6KW	6KW	8KW	10KW
Model	SUN-6K-SG04LP3-EU	SUN-6K-SG05LP3-EU-SM2	SUN-8K-SG04LP3-EU	SUN-10K-SG04LP3-EU
Battery Voltage Range (V)	40-60	40-60	40-60	40-60
Max. Charging Current (A)	150	135	190	210
Max. DC Input Power (W)	7800	9000	10400	13000
Start-up Voltage (V)	160	160	160	160
MPPT Range (V)	200-650	200-650	200-650	200-650
No.of MPP Trackers	2	2	2	2
Full Load DC Voltage (V)	350-650	350-650	350-650	350-650
PV Input Current (A)	20+20	20+20	26+20	26+26
No.of Strings per MPP Tracker	1+1	1+1	1+1	2+1
Rated AC Output Power (W)	6000	6000	8000	10000
AC Output Rated Current (A)	9.1/8.7	9.1/8.7	12.1/11.6	15.2/14.5
Max. AC Output Current (A)	10/9.6	10/9.6	13.4/12.8	16.7/15.9
Grid Type	Three Phase	Three Phase	Three Phase	Three Phase
Max. Efficiency	97.6%	97.6%	97.6%	97.6%
MPPT Efficiency	99.90%	99.90%	99.90%	99.90%

SKU	9445	9745	9436	9435
		NEW		



Scan for more info



HYBRID INVERTERS

Low Voltage - THREE PHASE



	10KW	12KW	15KW	20KW
Model	SUN-10KW-SG05LP3-EU-SM2	SUN-12K-SG05LP3-EU-SM2	SUN-15K-SG05LP3-EU	SUN-20K-SG05LP3-EU
Battery Voltage Range (V)	40-60	40-60	40-60	40-60
Max. Charging Current (A)	210	210	280	350
Max. DC Input Power (W)	18000	18000	22400	32000
Start-up Voltage (V)	160	160	160	160
MPPT Range (V)	200-650	200-650	160-650	160-650
No.of MPP Trackers	2	2	2	2
Full Load DC Voltage (V)	350-650	350-650	550	550
PV Input Current (A)	26+26	26+26	36+36	36+36
No.of Strings per MPP Tracker	2/2+2	2/2+2	2/2+2	2/2+2
Rated AC Output Power (W)	11000	11000	18000	20000
AC Output Rated Current (A)	15.2/14.5	15.2/14.5	27.3/26.1	30.4/29
Max. AC Output Current (A)	16.7/15.9	16.7/15.9	30/28.7	33.4/31.9
Grid Type	Three Phase	Three Phase	Three Phase	Three Phase
Max. Efficiency	97.6%	97.6%	97.6%	97.6%
MPPT Efficiency	99.90%	99.90%	>99%	>99%

SKU	9754	9759	9756	9757
	NEW	NEW	NEW	NEW

Deye



Scan for more info



HYBRID INVERTERS

Low Voltage - SINGLE PHASE



	3.6KW	5KW	5KW	6KW	8KW	10KW	12KW	16KW
Model	SUN-3.6K-SG05LP1-EU	SUN-5K-SG03LP1-EU	SUN-5K-SG05LP1-EU-AM2-P	SUN-6K-SG05LP1-EU-AM2-P	SUN-8K-SG01LP1-EU	SUN-10K-SG02LP1-EU-AM3	SUN-12K-SG02LP1-EU-AM3	SUN-16K-SG01LP1-EU
Battery Voltage Range (V)	40-60	40-60	40-60	40-60	40-60	40-60	40-60	40-60
Max. Charging Current (A)	90	120	120	135	190	220	250	290
Max. DC Input Power (W)	5760	6500	8000	9600	10400	16000	19200	25600
Start-up Voltage (V)	125	125	125	125	125	125	125	125
MPPT Range (V)	150-425	150-425	150-425	150-425	125-425	150-425	150-425	150-425
No.of MPP Trackers	2/1+1	2	2/1+1	2/1+1	2	3	3	3
Full Load DC Voltage (V)	370	300-425	370	370	200-425	500	500	370
PV Input Current (A)	18+18	13+13	18+18	18+18	26+26	20+20	20+20	26+26+26
No.of Strings -MPP Tracker	2/1+1	1	2/1+1	2/1+1	2+2	3/2+2+2	3/2+2+2	2
Rated AC Output Power (W)	3600	5000	5000	6000	8000	10000	12000	16000
AC Output Rated Current (A)	16.4/15.7	22.7/21.7	22.7/21.7	27.3/26.1	36.4/34.8	45.5/43.5	54.6/52.2	72.7/69.6
Max. AC Output Current (A)	18/17.2	25/23.9	25/23.9	30/28.7	40/38.3	50/47.9	60/57.4	80/76.5
Grid Type	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase	Single Phase
Max. Efficiency	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%	97.6%
MPPT Efficiency	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%

SKU

9746

9437

9760

9758

9447

9751

9752

9753

NEW

NEW

NEW



Scan for more info



ON GRID INVERTERS 400V

SINGLE PHASE / THREE PHASE

SKU 9467

CT for Inverter SINGLE PHASE with
SKU 9486



	Single Phase 8KW	8KW	10KW	30KW	50KW	100KW
Model	XG8KTL	XG8KTR	XG10KTR	XG30KTR	XG50KTR	XG100KTR
Max. Input Power	12kW	12.8kW	16kW	48kW	80kW	150kW
Max. Input Voltage	600V	1100V	1100V	1100V	1100V	1100V
Start Voltage	80V	160V	160V	250V	250V	250V
Rated Input Voltage	360V	600V	600V	600V	600V	620V
Full-load MPP Voltage Range	250V-480V	320V-850V	450V-850V	500V-800V	520V-850V	530V-850V
MPPT Voltage Range	80V-560V	180V-1000V	180V-1000V	200V-1000V	200V-1000V	180V-1000V
Number of MPP Trackers	2	2	2	3	4	9
Max. Current per MPPT	1/1	14A/14A	14A/14A	26A	39A/26A/39A/26A	26A
Max. Output Current	40A	12.8A	15.9A	48.3A	79.7A	158.8A
Rated Output Powe	8kW	8kW	10kW	30kW	50kW	100kW
Max. Output Power	8.8kVA	8.8kVA	11kVA	33.3kVA	55kVA	110kVA
Rated Grid Voltage	220-240Vac	230Vac/400Vac	230Vac/400Vac	230Vac/400Vac	230Vac/400Vac	230Vac/400Vac
THDi	<3%	<3%	<3%	<3%	<3%	<3%
Max. Efficiency	98.70%	98.70%	98.70%	98.6%	98.7%	98.6%
MPPT Efficiency	99.90%	99.90%	99.90%	99.90%	99.90%	99.90%

SKU

9486

NEW

9481

9482

9483

9484

9485

Deye



INVERTER 50kW

NEW

String Inverter - Three Phase

Model	SUN-50K-G03
Max. DC Input Power (kW)	65
Max. DC Input Voltage (V)	1000
Start-up DC Input Voltage (V)	250
MPPT Operating Range (V)	200~850
Number of MPPT / Strings per MPPT	4/3
Rated Output Power (kW)	50
AC Grid Voltage Range (V)	277Vac~460Vac
Operating Phase	Three Phase
Rated AC Grid Output Current (A)	72.4
Max. AC Output Current (A)	79.7
Max. Efficiency	98.7%

SKU

9781

SUNGROW



Sungrow 250kw 800V Inverter

NEW

Three Phase

Model	SG250HX
Max. PV input voltage	1500V
Min. PV input voltage	600V
MPP voltage range	600V-1500V
No. of independent MPP inputs	12
Max. DC short-circuit current	50A *12
AC output power	250 kVA
Max. AC output current	180.5A
Nominal AC voltage	3 / PE, 800 V
AC voltage range	680 – 880V
Feed-in phases / connection phases	3/3
Max. efficiency	99.0%

SKU

9496

DYNES



- Overall Solar+Storage Solution
- All in one design Concept
- Convinient Outdoor Setup
- Allow Flexible System Design
- High - level Safety design
- Capacity Extenable to MegaWatts

All-In-One Cabinet		NEW
BESS 100kW Inverter/215kWh Battery		
DH200F		
BATTERY PARAMETER		
Cell Capacity	280Ah	
Battery Voltage Range	672~864V	
Nominal Current	140A	
System	215kWh	
AC ON-GRID /OFF-GRID		
Nominal Power	100kW	
AC Voltage	400V	
Wiring	3P4L+PE	
AC MAX Current	158A	
PHOTOVOLTAIC INPUT		
MPPT Voltage Range	200-670V	
MPPT Channels	Up to three	
Input Power	Single channel 50kW	

SKU	9489
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SYL
A RISEN GROUP COMPANY



Plug-and-Play



No external PCS



No BCP needed



Liquid-cooled



Up to 5 cabinets



Flexible layout

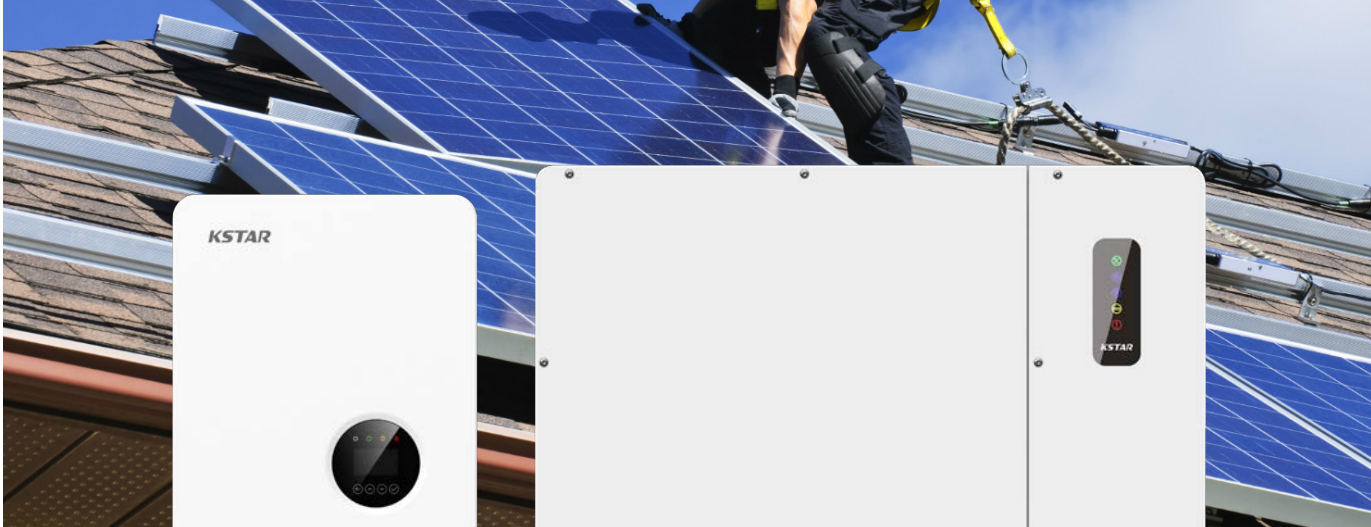
All-In-One Cabinet		NEW
BESS 100kW Inverter / 215kWh Battery		
SU215E100LM		
BATTERY Information		
Battery	LFP	
Capacity	280Ah	
Configuration	240S1P	
Nominal Voltage	768V	
Voltage Range	672~864V	
PCS Information		
Nominal Power	100kVA	
Operating Mode	On-Grid & Off-Grid	
Nominal Grid	400Vac	
Power Factor	-1 to 1	
Isolation	No Isolation	
Connection Method	3P4L	

SKU	9490
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KSTAR



Scan for more info



SKU 9495

WIFI DONGLE FOR KSTAR INVERTERS

ON GRID INVERTERS

THREE PHASE



	10KW	30KW	40KW	120KW
Model	BluE-10KT	KSG-30KT	KSG-40KT	KSG-120CL
Max. DC Voltage	1100V	1100V	1100V	1100V
Nominal Voltage	620V	600V	600V	620V
Start Voltage	180V	180V	180V	250V
MPPT Voltage Range	140V-1000V	200V-1000V	200V-1000V	200V-1000V
Number of MPPT Tracker	2	3	3	10
Strings Per MPPT Tracker	1	2	2	2
Max. Input Current Per MPPT	15A	30A	30A	30A
Max. Short-circuit Current Per MPPT	20A	50A	50A	50A
Nominal AC Output Power	10000W	30000W	40000W	120kW
Maximum AC Output Power	11000VA	33000VA	44000VA	121kVA
Nominal AC Voltage	400V 3L+N	400V 3L+N	400V 3L+N	320-480V 3W+PE
Maximum Output Current	16A	47.7A	63.6A	174.6A
THDi	<3%	<3%	<3%	<3%
Max. Efficiency	98.7%	98.7%	98.7%	98.7%
Euro Efficiency	98.1%	98.4%	98.4%	98.3%
SKU	9491	9492	9493	9494

Deye



Scan for more info



All-in-One Energy Storage System

5kW Inverter & 5.32kWh Battery - SINGLE PHASE

Model	RW-F5.3-1H3
Output Active Power (W)	5000
AC Output Rated Current (A)	22.8 / 21.8
Max. PV Access Power (W)	10000
Start Up PV Voltage (Vdc)	125
MPPT Voltage Range (Vdc)	150-425
Battery Nominal Voltage (V)	51.2
Battery Energy Configuration (kWh)	5.32
Battery Operating Voltage (V)	44.8-57.6

SKU 9430

Deye



C&I Battery Cabinet

Without Inverter

Model	GE-F60
Module Energy (kWh)	5.12
Module Nominal Voltage (V)	51.2
Module Capacity (Ah)	100
System Nominal Voltage (V)	614.4
System Operating Voltage (V)	480-700
System Energy (kWh)	61.44
Charge/Discharge Current (A)	100
Dimension	735x1045x2235mm

SKU 9791

Deye



C&I Battery Cabinet

With 50KW Hybrid Inverter - THREE PHASE

Model	GE-F120-2H2
Nominal Output Power (W)	40000
Max PV Input Power (W)	52000
Start Up DC Voltage (Vdc)	180
MPPT Voltage Range (Vdc)	150-850
Battery Operating Voltage (V)	500-700
Battery Nominal Voltage (V)	51.2
Battery Module Energy (kWh)	5.12
Energy Configuration (kWh)	122.8

SKU 9792

1. STANDARD 19 INCH RACK

For 8Pcs Batteries and 1 Pcs Controller

SKU 9475L

NEW



For 12 Pcs Batteries and 1 Pcs Controller

SKU 9475

Deye



2. BATTERY CLUSTER CONTROL BOX

High Voltage - BOS-G PRO

Model	BOS-G-PDU-2
Operating Voltage	120-1000 VDC
Charge/Discharge Current	100A
MAX Charge/Discharge Current	125A
DC Input Rating	12±2%V/4.15A
Dimension	440*570*150mm

SKU 9478

3. BATTERY MODULE 5.12KWH

High Voltage LiFePO4 - Rack Mounting - BOS-G PRO

Model	BOS-G-Pack5.1
Nominal Capacity	100 Ah
Nominal Energy	5.12kWh
Nominal Voltage	51.2VDC
Charge/Discharge Current	100A

SKU 9479

1. STANDARD 19 INCH RACK

For 13 Pcs Batteries and 1 Pcs Controller

SKU 9775

Dimensions: 589x590x2240mm



Deye



2. BATTERY CLUSTER CONTROL BOX

High Voltage - BOS-A

Model	BOS-A-PDU-2
Operating Voltage	436.8-569.4 VDC
Charge/Discharge Current	100A
MAX Charge/Discharge Current	160A
Module Capacity (Ah)	200Ah
Dimension	440*570*150mm

SKU 9776

3. BATTERY MODULE 5.12KWH

High Voltage LiFePO4 - Rack Mounting - BOS-A

Model	BOS-A
Nominal Capacity	200 Ah
Nominal Energy	7.68kWh
Nominal Voltage	38.4VDC
Charge/Discharge Current	100A

SKU 9777

1. STANDARD 19 INCH RACK

For 15 Pcs Batteries and 1 Pcs Controller

NEW

SKU 9793



Deye



1



2



3

C&I ESS Solution/Rack-Mounted Battery (HV)

High Voltage - BOS-B

Model	BOS-B-PDU -2-A
Operating Voltage	200-1000 Vdc
Charge/Discharge Current	168A
Operating Temperature	-20~60°
Details	788.6×526×167.2mm 32kg

SKU 9794

2. BATTERY MODULE 16.08KWH

High Voltage LiFePO4 - Rack Mounting - BOS-B

Model	BOS-B-Pack16-A3
Nominal Capacity	314 Ah
Nominal Energy	16.08kWh
Nominal Voltage	51.2VDC
Charge/Discharge Current	180A

SKU 9794



BATTERIES
Low Voltage LiFePO4

NEW



	Deye LV Lithium Battery 16kWh 51.2V	Deye LV Lithium Battery 11.8kWh 51.2V	Deye LV Lithium Battery 5.12kWh 51.2V	Deye Low Voltage Lithium Battery 16W 51.2V
Model	SE-F16-C	SE-F12-C	SE-F5-PRO-C	RW-F16
Nominal Energy	5kW	11.8kWh	5.12kW	16kWh
SKU	9786	9787	9788	9789



BATTERIES

Low Voltage LiFePO4

Model	RW-M6.1-B	RW-F10.2
Nominal Capacity	120 Ah	200 Ah
Nominal Energy	6.14Wh	10.2kWh
Nominal Voltage	51.2VDC	51.2VDC
Charge/Discharge Current	60A	100A
SKU	9439	9488



BATTERIES

Low Voltage LiFePO4 - Stackable

Model	SE-G5.1-PRO-B
Nominal Capacity	100 Ah
Nominal Energy	5.12kWh
Nominal Voltage	51.2VDC
Charge/Discharge Current	100A
SKU	9474



BATTERIES RACK MOUNTING

Low Voltage LiFePO4

Model	VE48100E-P2
Nominal Capacity	100 Ah
Nominal Energy	5.12kWh
Nominal Voltage	51.2VDC
Charge/Discharge Current	100A
Warranty	10 Years

SKU	9470
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BATTERIES RACK MOUNTING

NEW

Low Voltage LiFePO4

Model	VT48200B
Nominal Capacity	200 Ah
Nominal Energy	9.6kWh
Nominal Voltage	48VDC
Charge/Discharge Current	100A
Warranty	10 Years

SKU	9770
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SKU 9465

SET FOR BATTERY 9471-9473



SKU 9469

SLAVE CABLE KIT FOR SKU:9470



SKU 9468

EXTERNAL RACK FOR SKU:9470



SKU 9468C

EXTERNAL COVER FOR SKU:9470



SKU 9769

SLAVE CABLE KIT for 9770



SKU 9768

L-SHAPE Mounted Rack for 9770



SKU 9767

Black Stacked Rack for 9770





BALCONY ENERGY STORAGE

ALL-IN-ONE module - One Battery

Model	AE-FS2.0-2H2
Nominal Capacity	100 Ah
Nominal Energy	5.12kWh
Nominal Voltage	51.2VDC
Charge/Discharge Current	100A

SKU 9487

Deye Balcony Battery

Expansion Pack for Balcony Storage

Model	AE-F2.0
Nominal Energy	2kWh
Nominal Voltage	51.2Vdc
Charge/Discharge Current	50a

SKU 9487-B



1

Deye Lithium Battery 5.1kWh 51.2V

LifePO4 - Stackable

Model	AI-W5.1-B
Capacity	100Ah
Nominal Voltage	51.2Vdc
Operating Voltage	44.8V - 57.6V
Nominal Energy	5.12kWh
Dimensions	720x255x569mm

SKU 9733



1



2



2

Deye PDU & base for AI-W5.1-B

Built-in Circuit Breaker - 250A 2P, 1000Vdc

Model	PDU1-B
Dimensions	720x255x238mm

SKU 9734



SKU 9466

CT for Smart Meter 3-Phase



3
Years
Warranty



Smart Meters Kits for INVT 3-Phase Inverters

Including wires and CT SDT024TS

Model	STD670V
Voltage	3x5A, 3x16A, 3x32A, 3x63A & 3x100A
Current	2x110V/220V, 3x57.7/100V, 3x127/220V, 3x220V/380V, 3x230V/400V, 3x100V, 3x380V

SKU 9460

Multi-Function Electrical Energy Meter

SINGLE PHASE

Nominal Voltage	120V or 230V AC
Basic current	10A
Maximum rated current	100A
Bi-directional measurement	Yes
Operating Voltage	80%-120%

SKU 9461

3
Years
Warranty



Multi-Function Electrical Energy Meter

THREE PHASE

Nominal Voltage	3x230/400V ac
Basic current	10A
Maximum rated current	100A
Bi-directional measurement	Yes
Operating Voltage	80%-120%

SKU 9462

9463

CT & PT Operated

3
Years
Warranty



3
Years
Warranty

Dual Power Automatic Transfer Electrical Selector

TOMZN Din Rail 3 phase ATS 4P 63A 100A 125A 230V

Thomson TOQ7 rail type three-phase automatic switch (ATS), using four pole (4P) design, with 63A, 100A, 125A rated current specifications, suitable for 230V voltage environment. It is an uninterruptible electrical selector switch with dual power automatic conversion, which can quickly switch between the main and standby power supplies to ensure stable power supply, and is widely used in various scenarios with high requirements for power supply continuity.

SKU 9799



Wireless energy management system

A smart load management and home automation solution based on LoRa communication.

Deye Wireless CT is installed in the distribution box to monitor power consumption, Supports both LoRa and RS485 communication methods simultaneously.



SKU 9798

All Deye hybrid inverters can serve as the local control center for the Deye Smart Home IoT System. Simply install the Deye Smart Transmitter(TX) to the inverter's Meter port to easily pair with Deye LoRa devices.



SKU 9796

Deye Smart Plug can be easily installed in any standard socket, instantly upgrading the appliance plugged in to a smart device.



SKU 9731

Deye Smart Switch is designed for outdoor high-power loads, offering the same logic control as Smart Plugs, supporting both single-phase and three-phase loads. With the Deye Cloud APP or directly on the inverter's screen, you can customize the on/off logic for each Smart Plug based on factors like time and battery SOC levels.



SKU 9732

Deye Smart EV Charger can be directly connected to any AC port of the inverter and is controlled by the inverter via LoRa communication. It offers flexible options to take advantage of low-cost electricity, with modes such as Plug and Play, Time of Charge, or Solar Energy Only.



SKU 9797,9790



SMART EV CHARGER

DEYE SMART EV CHARGING GUN

Supports three modes: Plug and Play , Time of Charge and Solar Energy Only

Input Voltage	230(single phase), 230/400(three phase)
Connection Mode	L+N+PE,3L+N+PE
Input Current (A)	32
Max Output Power (kW)	7(single phase)/ 22(three phase)

SKU 9797 SUN-EVSE22K01-EU-AC

Input Voltage	230/400
Connection Mode	3L+N+PE
Input Current (A)	16
Max Output Power (kW)	11

SKU 9790 SUN-EVSE11K01-EU-AC

SUNGO



PV MODULE OPTIMIZER

SUNGO-OPT

Maximum input power(W)	600
Maximum input voltage(V)	60
MPPT voltage range (V)	7-60
Maximum input current (A)	16

SKU 9464

Tigo



PV MODULE OPTIMIZER

Tigo-OPT

Maximum input power(W)	700
Maximum input voltage(V)	80
MPPT voltage range (V)	16-80
Maximum input current (A)	15

SKU 9499

Tigo



TIGO Tap TIGO Access

Black

The Tigo Access Point (TAP) improves the data management of your solar array by wirelessly communicating with Tigo smart modules and retrofit devices. TAP also greatly improves safety with module-level deactivation.

Input Voltage	5-25V DC
Power Consumption	1W Peak
Dimmensions	126.2x130x26.8mm
Recommended cable type:	RS485 , 18-22AWG

SKU 9499-A

Tigo



CCA Cloud Connect Kit with Tap

DIN RAIL Power Supply

	CCA	TAP
Input Voltage	10-24V DC	100-240V
Power Consumption	3-10W	3-15W
Dimmensions	31x115.5x71.5	203x115x278.4
Cooling	Nanural Convection	Nanural Convection

SKU 9499-C

Deye



Deye



PV MODULE OPTIMIZER

SUN-XL02-B

Maximum input power(W)	700
Maximum input voltage(V)	80
MPPT voltage range (V)	12-80
Maximum input current (A)	15

SKU

9498

! CAN NOT WORK WITHOUT CONCENTRATOR SKU:9497 !

Deye



OPTIMIZER CONCENTRATOR

SUN-XL20-B

Maximum Input Current (A)	20
System (V)	1000/1500
Connected Strings	4
Connector	MC4

SKU

9497

! CAN NOT WORK WITHOUT OPTIMIZER SKU:9498 !



SKU	9656	AC220V or 110V
SKU	9657	AC220V or 110V + DC24 Supply(Battery)

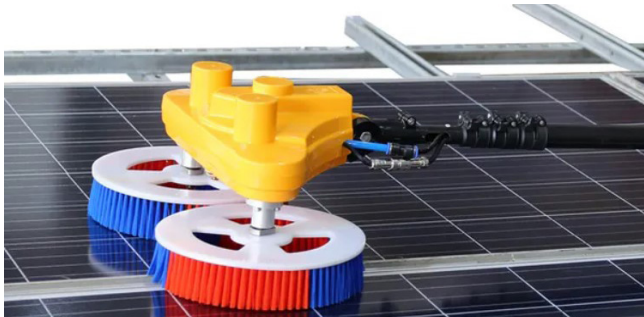
DOUBLE HEADED PV CLEANING BRUSH

5.5m Glass Fiber Handle 220VAC or 110VAC

Utilization Voltage	24V
Power	52.8W*2
Speed	128rpm
Torsion	1.2 N.m
Brush Size	280mm

Accessories:

Adapter , Water pipe and accessories , Backpack , Telescopic rod, Brush head assembly set (including 1 pcs brush discs)



SKU	9658	Single PV Panel 150W 24V10Ah
SKU	9659	Double PV Panel 200W 24V20Ah

SOLAR PANEL CLEANING ROBOT

Single or Double PV Panel

PV Module Range	Up to 2384mm Single / Double
Traveling Speed	15-20m/min
Generator Power	150W/200W
Water Used Per Hour	330
Solar Panel Power	27W
Battery Capacity (Ah)	24V10Ah / 20Ah
Cleaning Mode	Dry/Watering Cleaning
Other Functions	Speed Adjust/Direction Adjust



SKU9601 Rail 27*45mm - 2.2m 	SKU9602 Rail 27*45mm - 1.2m 	SKU9618 300mm Mini Rail 	SKU9619 2400mm Long Rail 	SKU9610 Rail Joiner 200mm 
SKU9620 Rail+Rubber+Screws 70x80x18.5mm 	SKU9613 Adjustable Rear Leg 10-15° 	SKU9614 Adjustable Rear Leg 15-30° 	SKU9612 Adjustable Front Leg 	SKU9616 Adjustable Tilt Mount Bracket 
SKU9632 Triangle Bracket 3850x1500x547mm 	SKU9635 Hook with 4pcs self Drilling Screws 	SKU9609 L-Foot M8*25mm 	SKU9611 Hanger Bolt with L-Foot 	SKU9633 Rail Clamp 40mm 
SKU9605 Rooftop Hook 	SKU9617 Ballasted Strip 446x80x18.5mm 	SKU9634 Ballast Pan for SKU:9632 	SKU9615 Grounding Plate 	SKU9629 Expansion Bolt 60mm 
SKU9603 End Clamp M8x25mm 	SKU9621 End Clamp M8x25mm for 30mm 	SKU9623 End Clamp for 30mm 	SKU9630 Ball Nut 20mm 	SKU9604 Middle Clamp 35mm 

SKU 9624

Middle Clamp M8x35 for 30mm



SKU 9622

Middle Clamp 20mm Wide



SKU 9606

TT Nut M8x25mm



SKU 9625

Inner Bolt 40mm



SKU 9626

Inner Bolt 25mm



SKU 9627

M8 Hexagonal Nut



SKU 9628

M8 Square Nut



SKU 9631

Sel Tapping Screw ST5.5*25mm



SKU 9607

Screw ST6.3*80mm



SKU 9608

Wood Screw M6.3*80mm



SKU 9636

Adjustable Tile Hook



SKU 9637

Rail Joiner L120mm



SKU 9638

Ball Nut L22mm



SKU 9639

End Clamp L60mm for 30mm Solar Panel



SKU 9640

Front Support L60mm 10°



SKU 9641

Rear Support L60mm 10°



SKU 9642

Base Beam 60x25mm -1.5m



SKU 9643

Beam Joiner L150mm



SKU 9644

T-Bolt M8*20mm



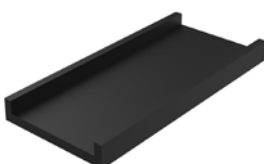
SKU 9645

Earthing Clip



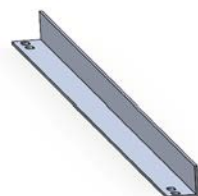
SKU 9646

Rubber Pad L100x70.5x12mm



SKU 9647

Ballasted Rail 50x30x2.5mm - 2m



Pitched Tile Roof Mounting

OPTONICA Pitched Tile Roof Mounting is suitable for installing framed or frameless modules flushed to pitch roof. Special design and pre-assembled clamp make installation easy.

Light Weight, Convenient and Durable.
Install Site: Pitch Tile Roof
Max Building Height: Up to 20m(65ft).
Max Wind Speed: 60 m/s
Snow Load: 1.4 KN/m2



Step 1: Remove tile and fix tile hook on beam by M6.3 x 80mm wood screw.



Step 2: Fix solar rail on tile hook and lock tightly by M8x2Smm T module set.



Step 3: Put solar panel on rail and fix with inter clamp or end clamp until finished.

SKU 9610



SKU 9605



SKU 9606



SKU 9608

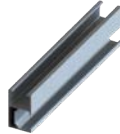


SKU 9602



1.2m

SKU 9601



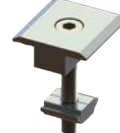
2.2m

SKU 9624



For panel 30mm

SKU 9604



For panel 35mm

SKU 9621



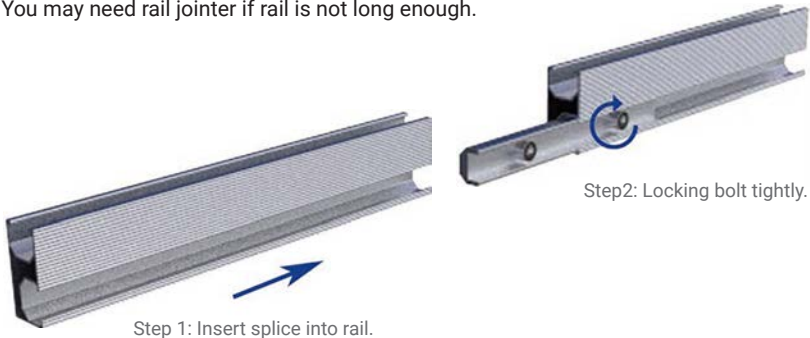
For panel 30mm

SKU 9603



For panel 35mm

You may need rail jointer if rail is not long enough.



Step 1: Insert splice into rail.

Step2: Locking bolt tightly.

Pitched Tin Roof Mounting

OPTONICA Pitched Tin Roof Mounting is made by high quality extruded Aluminum, the weight is light and it's convenient. It's easy to install and can work for any solar modules.

Install Site: Pitch Tin Roof
Max Building Height: Up to 20m (:::65ft).
Max Wind Speed: 60 m/s
Snow Load: 1.4 KN/m2
Material: Aluminum 6005-TS
Warranty: 10 years warranty; 25 years service life.
Installation Guide



Rail Joiner



1.2m



For panel 30mm



For panel 30mm



Rail Joiner



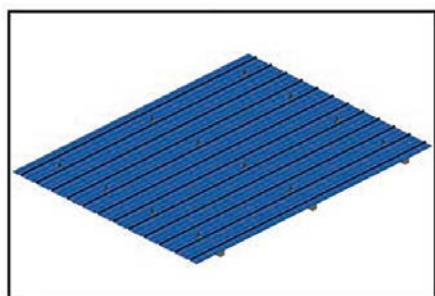
2.2m



For panel 35mm



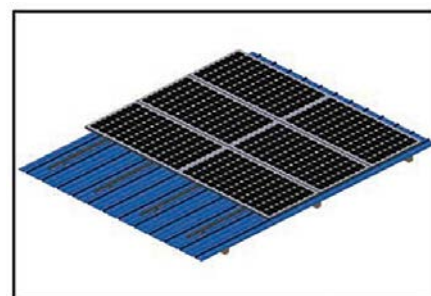
For panel 35mm



Step 1: Install L foot on tin roofing.



Step 2: Fix solar rail on L foot and lock by T modules set.



Step 3: Put solar panel on rail and fix with solar clamp.

Adjustable Tin Roof Mounting

OPTONICA Adjustable Tin Roof Mounting is designed to meet the adjustable tilt angle requirement, tilt angle adjustable make solar mounting system get the best efficiency on each season.

Adjustable Angle: 10-15 degree, 15-30degree, 30-60degree.
Install Site: Tin Roof
Max Building Height: Up to 20m(::::65ft).
Max Wind Speed: 60 m/s
Snow Load: 1.4 KN/m2



A

SKU 9612



Adjustable Front Leg

B

SKU 9613



Adjustable Rear Leg 10-15°

C

SKU 9602



1.2m

D

SKU 9624



For panel 30mm

E

SKU 9621



For panel 30mm

SKU 9610



Rail Joiner

SKU 9614



Adjustable Rear Leg 15-30°

SKU 9601



2.2m

SKU 9604

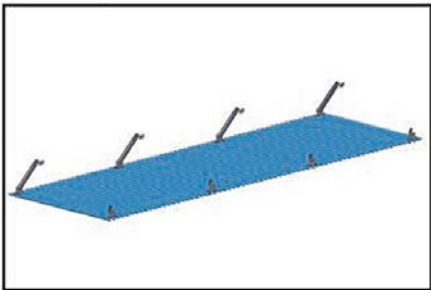


For panel 35mm

SKU 9603



For panel 35mm



Step 1: Fix adjustable front leg and rear leg on steel roofing.



Step 2: Fix solar rail on adjustable front leg and rear leg



Step 3: Put solar panel on rail and fix with solar clamp until finished.



Trapezoidal Metal Roof Mounting Railless Solution

Installation site: trapezoid metal roof or sandwich roof

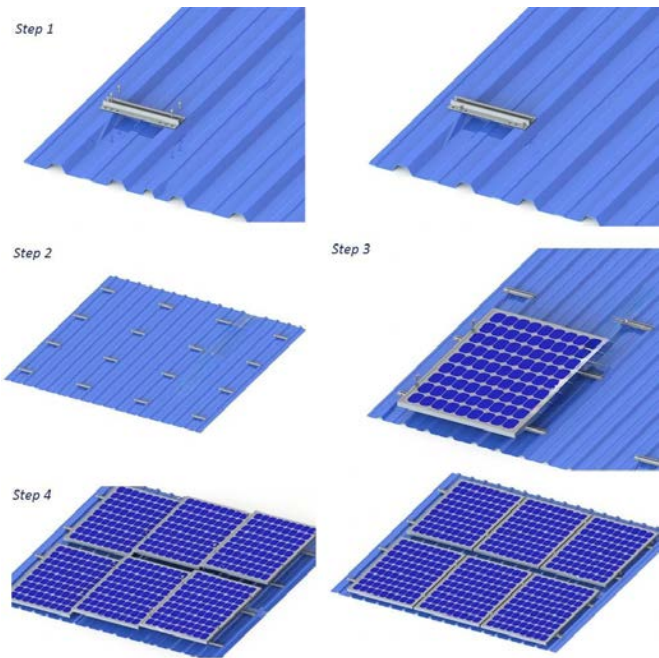
Application: Framed solar panel for any size

Structural materials: Aluminum Survival wind speed: up to 60m/s

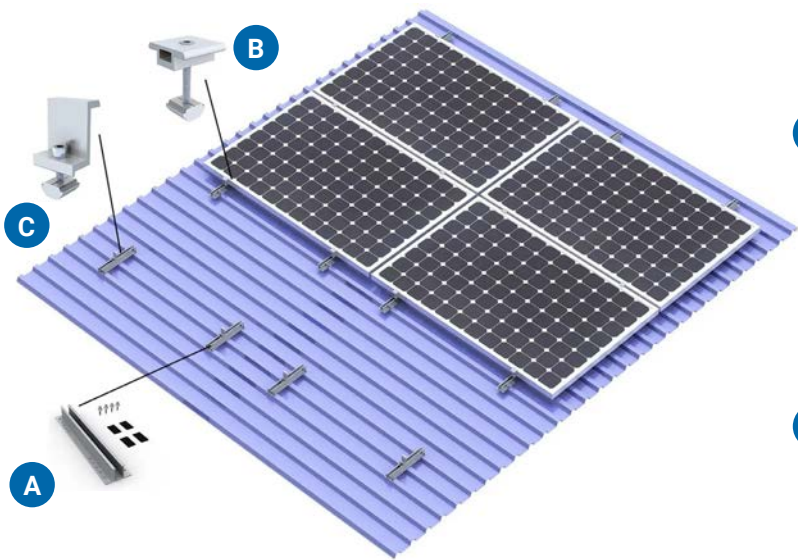
Design snow pressure: up to 1.4KN / m2 Inclination: 0 degree (the same angle as roof)

Panel direction: vertical or landscape Quality assurance for 10 years

- Step 1: Install railless clamp hook on roofing as per technical drawing.
- Step 2: Install railless clamp hook one by one.
- Step 3: Fix solar panel on railless clamp hook by mid clamp or end clamp.
- Step 4: Fix solar panel one by one until finished.



- A: Railless clamp hook
- B: Mid clamp
- C: End clamp



A SKU 9620



B SKU 9624



For panel 30mm

SKU 9604



For panel 35mm

C SKU 9621



For panel 30mm

SKU 9603



For panel 35mm

Aluminum Ballasted Solar Panels
Racking System For Flat Roof

OPTONICA Ballasted Mounting System is a common alternative used on solar installations for flat roof, it's non penetrate, so you don't need worry your roof will have any penetrations. The different with others roof mount is secured way, ballast mounts are secured with weight by concrete block to secure an array to the roof and prevent wind lift or other movement , but others are secured to the roof beams of the building through penetrations in the roof.

Light Weight, Convenient and Durable.
High Durability Ensure the Structure Strength
Install Site: Flat Concrete Roof or Open Filed
Adjustable Angle: 10°
Max Wind Speed: 60 m/s
Snow Load: 1.4 KN/m²

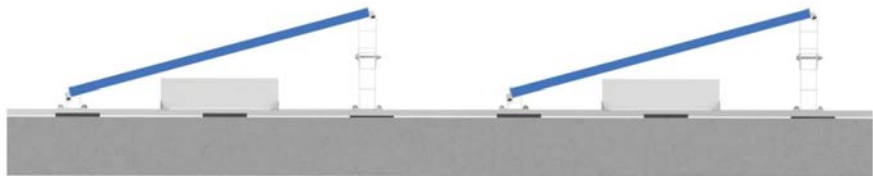
Step 1: Fix the rail on a flat roof
Step 2: Attach the front and rear support and tighten the screws
Step 3: Put the solar panel and fix with the clamps



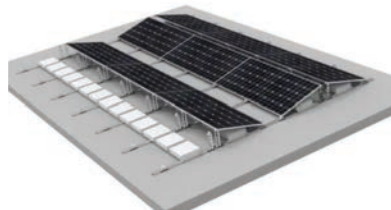
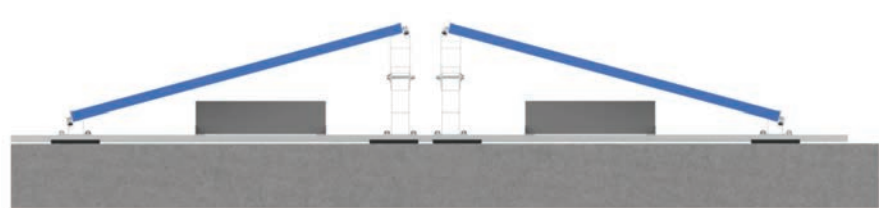
- A: Front Support L60mm, 10°
- B: Rear Support L60mm, 10°
- C: Base Beam 60*25mm, Lenght 1.5m
- D: Rubber Pad L100x70.5x12mm



South Aluminum ballasted solar panels racking system for flat roof



South Aluminum ballasted solar panels racking system for flat roof



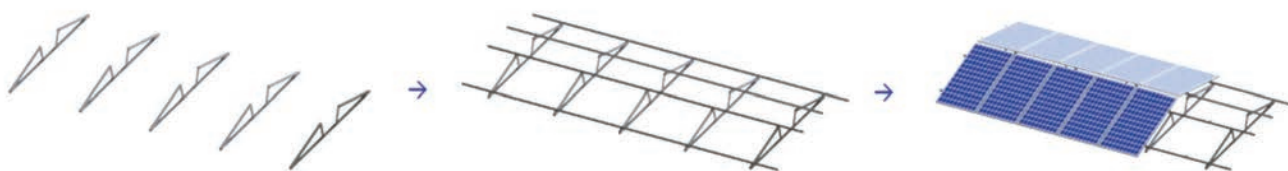
East west dual tilt flat roof mounting system

OPTONICA East West mounting system is a exclusive design,- the vast majority of systems are "south/north-facing", which means they are oriented south/north. Compare with traditional system, east-west don't require significant "dead space" when install, so it can install more solar panel in the same area, and higher energy production output.

Light Weight, Convenient and Durable.
Install Site: Flat Concrete Roof or Open Filed
Adjustable Angle: 5°-20°
Max Wind Speed: 60 m/s
Snow Load: 1.4 KN/m²



Step 1: Fix pre-assembled tripod bracket on flat roof.
Step 2: Fix solar rail on tripod bracket and lock by rail clamp.
Step 3: Put solar panel on rail and fix with solar clamp until finished.



A: Pre-assembled tripod bracket
B: Alu roof rail profile
C: Rail joiner
D: Middle clamp
E: End clamp
F: Rail clamp
G: Ballast Pan



A SKU 9632  Tripod bracket	B SKU 9602  1.2m	D SKU 9624  For panel 30mm	E SKU 9621  For panel 30mm	F SKU 9633  Rail Clamp
C SKU 9610  Rail Joiner	B SKU 9601  2.2m	D SKU 9604  For panel 35mm	E SKU 9603  For panel 35mm	G SKU 9634  Ballast Pan

OPTONICA SOLAR



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