



Engr. Anas Al Emam Executive Manager ION Solar

Renewable energy is increasingly playing a larger role in fulfilling this commitment to nation building. Saudi Arabia has pledged to reduce carbon emissions at multiple climate forums and only recently reiterated its commitment. With over 10 years of experience in renewable energy, we at the ION Solar see it as our responsibility —and indeed the responsibility of the entire sector — to help Saudi Arabia fulfil those pledges.

Our focus is simple — we are changing how our nation uses energy. And we are doing this by offering unique, high-performance, cost-effective energy conversion solutions using ION Solar Energy Solution. It is satisfying to know that we are able to provide optimum solutions that fulfill customers' needs, since customer satisfaction is the hallmark by which we measure our performance, and we hold ourselves, as do our clients, to the highest standards of quality.







About ION Solar

ION Solar Company was founded after an in-depth and intensive Research for Renewable Energy Technology and how it can be an alternative, cheaper and cleaner source of energy.

Due to the current Dilemma of power source generation all over the world and the global campaign to GO GREEN plus the benefit of being in the best country in the world to have a sufficient amount of sunlight all the year through, ION Company was established.

ION is dedicated to provide a high quality solar panels and accessories to our clients and to render a better service and quality work and is expert across full range of solar power applications, ranging from stand-alone home solar implementation, to complex projects with the best integrated energy storage.

ION Company is ideal partner for hybrid applications, which combines the advantages of renewable energy sources with conventional power generation. Within the field of electrical infrastructure, we have significant experience and engineering capability essential for the successful integration and implementation of solar power to the grid.



Why ION Solar?

We are your strategic partner for consultation, logistics, implementation and maintenance for alternative energy systems

- Lower Cost for Electricity
- Zero Investment and Maintenance Cost

We partnered with electrical company in providing your energy needs in the most cost effective and efficient way possible, through the strategic use of renewable and clean energy alternatives.

ION is dedicated to provide a high quality solar panels and accessories to our clients and to render a better service and quality work and is expert across full range of solar power applications, ranging from stand-alone home solar implementation, to complex projects with the best integrated energy storage.

ION Solar is ideal partner for hybrid applications, which combines the advantages of renewable energy sources with conventional power generation. Within the field of electrical infrastructure, we have significant experience and engineering capability essential for the successful integration and implementation of solar power to the grid.





- Investors
- Construction Companies
- Industrial and Commercial Businesses
- Hotels and Resorts
- Government Facilities
- Agriculture
- Residential Complexes





ION SOLAR Leader in Commercial Solar

ION Solar is a progressive alternative energy service provider that specializes in solar electric systems and the sale of Power Purchase Agreements (PPA). ION Solar has designed and implemented cost-effective solar electricity solutions for large scale commercial properties in SAUDI ARABIA and the rest of GCC. At ION Solar, our primary goal is to partner with companies to provide efficient and effective power solutions through the use of renewable and clean energy alternatives.

managers and experienced customer service and Our company offers a full suite of alternative energy administrative staff. Our dependable services, services, including: professionalism and commitment to providing energy efficiency consulting exceptional customer support are why our company is the forerunner in the solar power industry. □ site analysis design and implementation □ financing □ maintenance and support □ billing

ION Solar employs a skilled team that is comprised of

exceptional customer support are why our company is

ION Solar employs a skilled team that is comprised of

electrical engineers, licensed electricians, project

electrical engineers, licensed electricians, project

administrative staff. Our dependable services,

professionalism and commitment to providing

the forerunner in the solar power industry.

managers and experienced customer service and







50KW Solar System with Lithium battery





PROJECT 001

PRIVATE VILLA

Prince Bader



On-Grid System



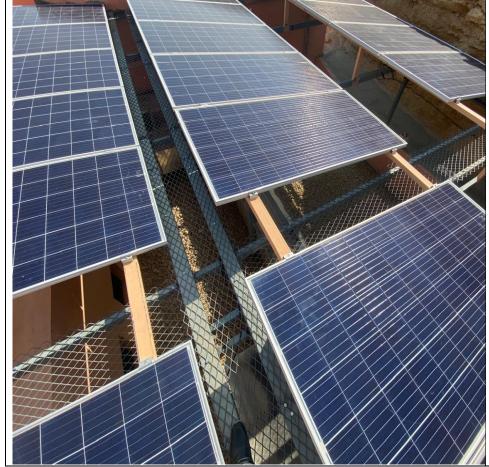


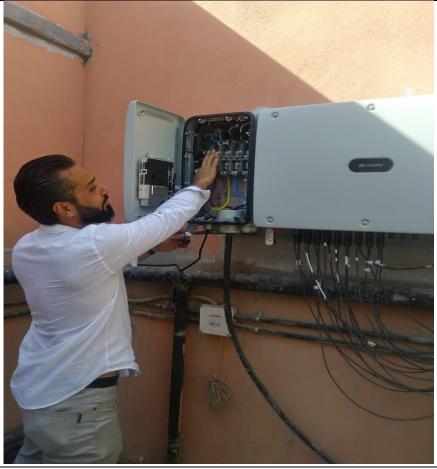
PRIVATE VILLA

Prince Bader



On-Grid System





RASHID FARM

2,400 Liters of hot water system

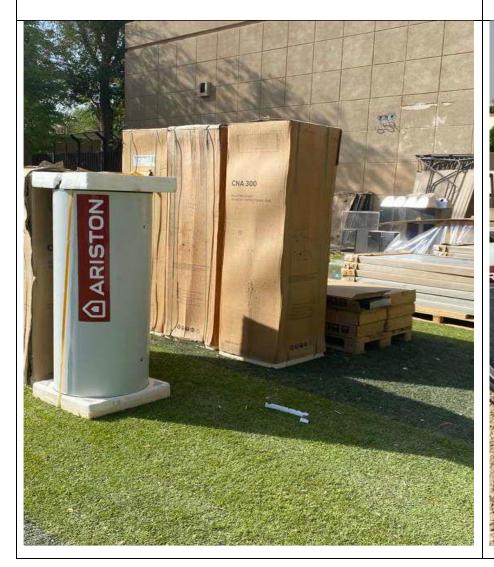




PROJECT 003

BRITISH INTERNATIONAL SCHOOL

4,500 Liters of hot water system





RIYADH VILLA

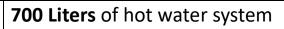
35kW On-Grid System

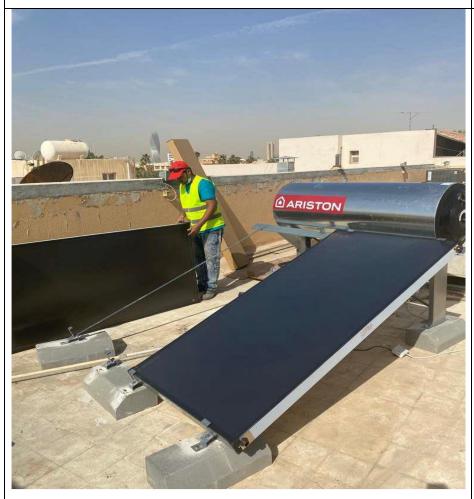




PROJECT 005

RIYADH VILLA

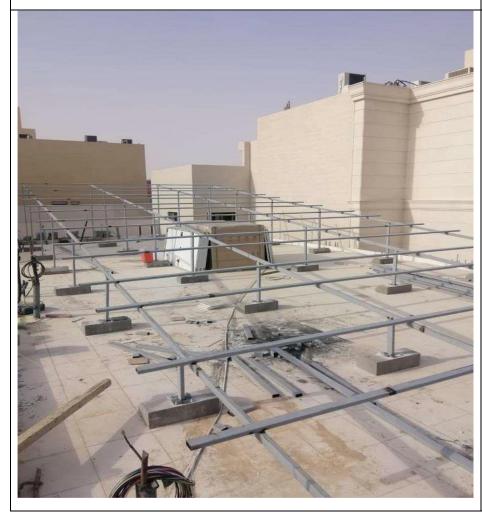






RIYADH VILLA







100KW On-Grid System **PRINCESS LATIFA**

PROJECT 008

CAMEL CLUB

Installation of 130 pole with more than 550 cameras powered by Solar



PROJECT 009



Nozha Branch





Hail Branch







Ghornata Branch









Al Munsiyah Branch







Al Kharj Branch





Al Dar Al Beda Branch





Ishbilia Branch





Nahdi Jamel









PROJECT 018

Riyadh Marriott Hotel

Remove the current SS tube of the solar water heater, and replace it with a copper tube.









PROJECT 019

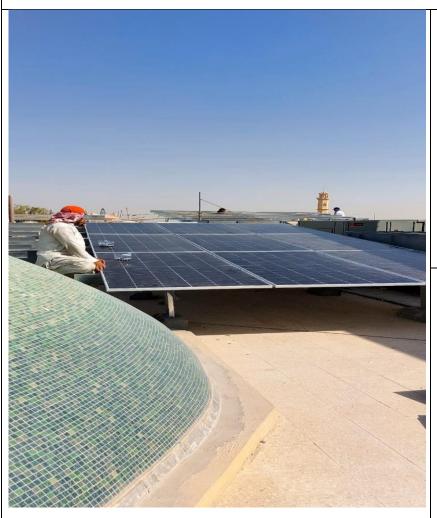
Riyadh Marriott Hotel



Remove the current SS tube of the solar water heater, and replace it with a copper tube



Kash Al Bahira Morooj







Jeddah Villa







PROJECT 021

Shagra Farm

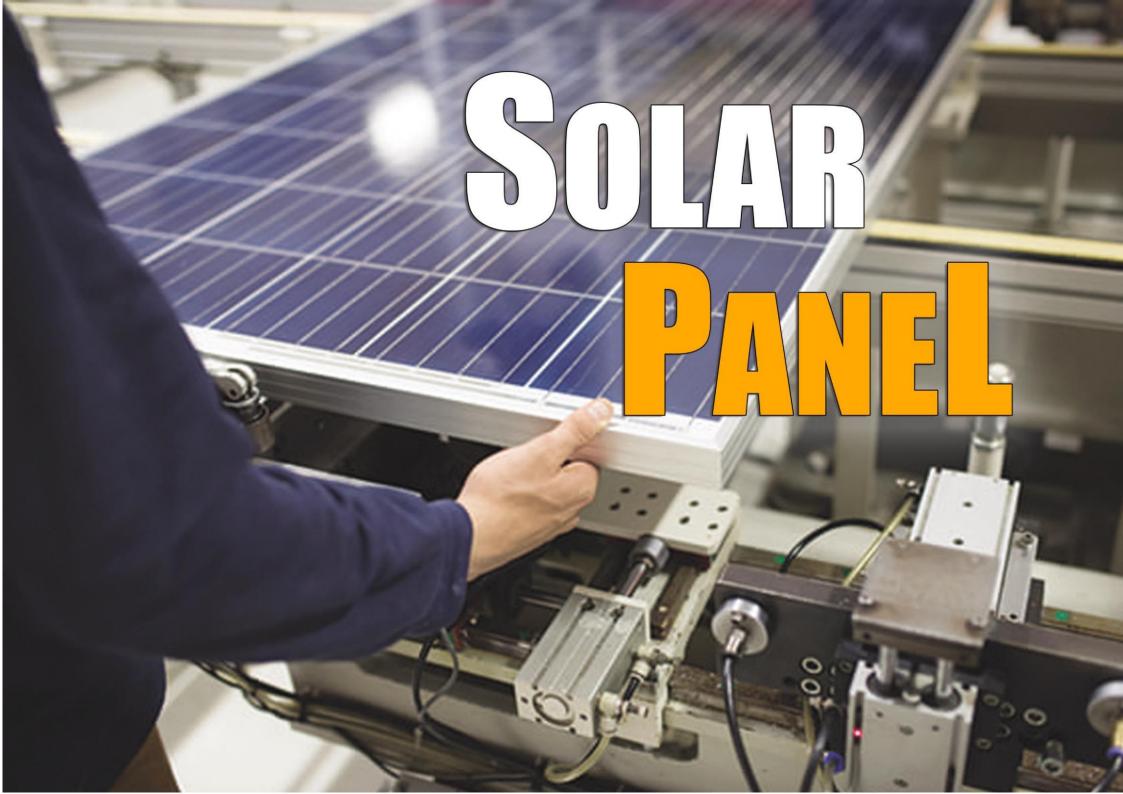




AL Akaria Olaya



PROJECT 023





Harvest the Sunshine









JAM72D40 LB n-type Double Glass Bifacial Modules

Premium Cells





MBB Half-Cell Technology

Cell Conversion Efficiency

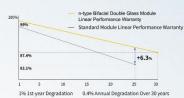
Premium Modules



LID n-type with very

O Better Temperature Coefficient

Better low irradiance response







Comprehensive Certificates

- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- · ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules Quality system for PV module manufacturing







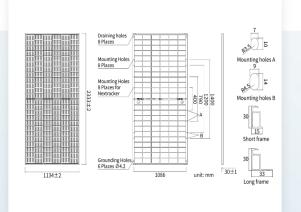




DEEP BLUE 4.0 pg

JAM72D40 LB n-type Double Glass Bifacial Modules





MECHANICAL PARAMETERS

Cell	Mono
Weight	32.5kg
Dimensions	2333±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm2(IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+) /400mm(-) Landscape: 1400mm(+)/1400mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72D40 580/LB	JAM72D40 585/LB	JAM72D40 590/LB	JAM72D40 595/LB	JAM72D40 600/LB	JAM72D40 605/LB
Rated Maximum Power(Pmax) [W	580	585	590	595	600	605
Open Circuit Voltage (Voc) [V]	51.60	51.80	52.00	52.20	52.40	52.60
Maximum Power Voltage(Vmp) [V	43.06	43.24	43.41	43.59	43.76	43.94
Short Circuit Current(Isc) [A]	14.23	14.29	14.35	14.42	14.48	14.53
Maximum Power Current(Imp) [A]	13.47	13.53	13.59	13.65	13.71	13.77
Module Efficiency [%]	21.9	22.1	22.3	22.5	22.7	22.9
Power Tolerance				0~+3%		
Temperature Coefficient of Isc(α _	Isc)		+().045%/°C		
Temperature Coefficient of Voc (β	_Voc)		-().250%/°C		
Temperature Coefficient of Pmax	mperature Coefficient of Pmax(γ_Pmp)		-0.290%/°C			
STC		Irradiano	e 1000W/m²,	cell tempera	ture 25°C, AM	1.5G

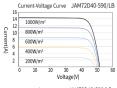
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer They only serve for comparison among different module types

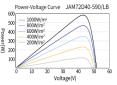
ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM72D40 580/LB	JAM72D40 585/LB	JAM72D40 590/LB	JAM72D40 595/LB	JAM72D40 600/LB	JAM72D40 605/LB
Rated Max Power(Pmax) [W]	626	632	637	643	648	653
Open Circuit Voltage(Voc) [V]	51.60	51.80	52.00	52.20	52.40	52.60
Max Power Voltage(Vmp) [V]	43.06	43.24	43.41	43.59	43.76	43.94
Short Circuit Current(Isc) [A]	15.36	15.43	15.50	15.57	15.64	15.69
Max Power Current(Imp) [A]	14.55	14.61	14.68	14.74	14.81	14.87
Irradiation Ratio (rear/front)			10%			

^{*} For Nextracker installations, maximum static load please take compatibility approve letter between JA Solar and Nextracker for reference.

CHARACTERISTICS





OPERATING CONDITIONS

iaximum system voitage	1500V DC
perating Temperature	-40°C~+85°C
laximum Series Fuse Rating	30A
laximum Static Load, Front*	5400Pa(112 lb/ft²)
laximum Static Load, Back*	2400Pa(50 lb/ft²)
OCT	45±2°C
ifaciality**	80%±10%
afety Class	Class II
ire Performance	UL Type 29/Class C



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Version No.: Global-EN-20240423A



Harvest the Sunshine









JAM72S30 MR p-type Monofacial Modules

Premium Cells





MBB Half-Cell Technology

Cell Conversion Efficiency

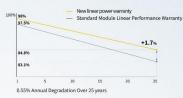
Premium Modules









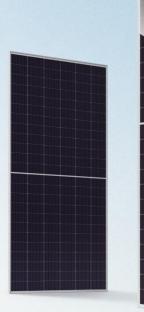


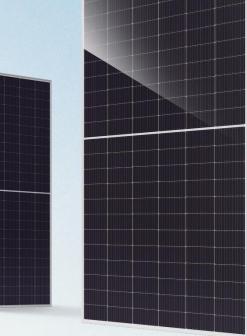




Comprehensive Certificates

- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
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- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules Quality system for PV module manufacturing

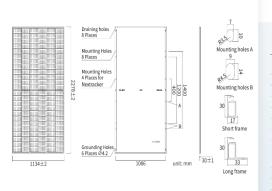






JAM72S30 MR p-type Monofacial Modules





MECHANICAL PARAMETERS

Cell	Mono
Weight	27.3kg
Dimensions	2278±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm2(IEC), 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3diodes
Connector	QC 4.10-351/MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+) /400mm(-) Landscape: 1300mm(+)/1300mm(-)
Front Glass	3.2mm
Packaging Configuration	36pcs/Pallet, 720pcs/40HQ Container

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72S30 540/MR	JAM72S30 545/MR	JAM72S30 550/MR	JAM72S30 555/MR	JAM72S30 560/MR	JAM72S30 565/MR
Rated Maximum Power(Pmax) [W]	540	545	550	555	560	565
Open Circuit Voltage (Voc) [V]	49.60	49.75	49.90	50.02	50.15	50.28
Maximum Power Voltage(Vmp) [V]	41.64	41.80	41.96	42.11	42.27	42.42
Short Circuit Current(Isc) [A]	13.86	13.93	14.00	14.07	14.14	14.21
Maximum Power Current(Imp) [A]	12.97	13.04	13.11	13.18	13.25	13.32
Module Efficiency [%]	20.9	21.1	21.3	21.5	21.7	21.9
Power Tolerance			()~+3%		
Temperature Coefficient of Isc(α_I	sc)		+0.	045%/°C		
Temperature Coefficient of Voc (β.	_Voc)	-0.275%/°C				
Temperature Coefficient of Pmax(y_Pmp)	-0.350%/°C				
STC		Irradiance	1000W/m², c	ell temperatu	ıre 25°C, AM1.	5G

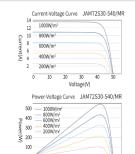
Remark: Electrical data in this catalog do not refer to a single module and they are not part of the offer. They only serve for comparison among different module types.

ELECTWRICAL PARAMETERS AT NOCT

TYPE	JAM72S30 540/MR	JAM72S30 545/MR	JAM72S30 550/MR	JAM72S30 555/MR	JAM72S30 560/MR	JAM72S30 565/MR
Rated Max Power(Pmax) [W]	408	412	416	420	424	428
Open Circuit Voltage(Voc) [V]	46.43	46.55	46.68	46.85	46.99	47.15
Max Power Voltage(Vmp) [V]	38.99	39.20	39.43	39.66	39.85	40.04
Short Circuit Current(Isc) [A]	11.09	11.13	11.17	11.21	11.26	11.31
Max Power Current(Imp) [A]	10.47	10.51	10.55	10.59	10.64	10.69
NOCT	Irradiance 8	00W/m², amb	ient tempera	ture 20°C, wi	nd speed 1m	/s, AM1.5G

^{*} For Nextracker installations, maximum static load please take compatibility approve letter between JA Solar and Nextracker for reference.

CHARACTERISTICS



OPERATING CONDITIONS

Maximum System Voltage	1000V/1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	25A
Maximum Static Load, Front*	5400Pa(112 lb/ft²)
Maximum Static Load, Back*	2400Pa(50 lb/ft ²)
NOCT	45±2℃
Safety Class	Class II
Fire Performance	UL Type 1 /Class C



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Tel: +86 10 6361 1888 Fax: +86 10 6361 1999 E-mail: sales@jasolar.com marketing@jasolar.com www.jasolar.com Specifications subject to technical changes and tests. JA Solar reserves the right of final interpretation.

Version No.: Global-EN-20240417A











www.jinkosolar.com



JKM330P-72 310-330 Watt

ISO9001:2008-ISO14001:2004-OHSAS18001





KEY FEATURES



4 Busbar Solar Cell:

4 busbar solar cell adopts new technology to improve the efficiency of modules, offers a better aesthetic appearance, making it perfect for rooftop installation.



High Efficiency:

High module conversion efficiency (up to 17.01%), through innovative manufacturing technology.



Low-light Performance:

Advanced glass and solar cell surface texturing allow for excellent performance in low-light environments.



Severe Weather Resilience:

Certified to withstand: wind load (2400 Pascal) and snow load (5400 Pascal).

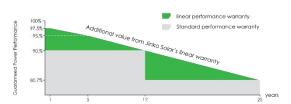


Durability against extreme environmental conditions:

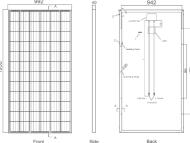
High salt mist and ammonia resistance certified by TUV NORD.

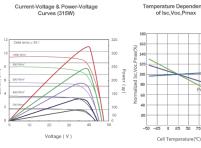
LINEAR PERFORMANCE WARRANTY

10 Year Product Warranty • 25 Year Linear Power Warranty



Engineering Drawings





Electrical Performance & Temperature Dependence

Temperature Dependence of Isc,Voc,Pmax

65	
1	

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Packaging Configuration

(Two pallet=One stack)

25pcs/pallet, 50pcs/stack, 600 pcs/40'HQ Container

Mechanica	l Characteristics
Cell Type	Poly-crystalline 156×156mm (6 inch)
No.of cells	72 (6×12)
Dimensions	1956×992×40mm (77.01×39.05×1.57 inch)
Weight	26.5 kg (58.4 lbs.)
Front Glass	4.0mm, High Transmission, Low Iron, Tempered Glass
Frame	Anodized Aluminium Alloy
Junction Box	IP67 Rated
Output Cables	TÜV 1×4.0mm², Length: 900mm or Customized Length

SPECIFICATIONS

Module Type	JKM:	310P	JKM:	315P	JKN	//320P	JKM	325P	JKM:	330P
	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT	STC	NOCT
Maximum Power (Pmax)	310Wp	230Wp	315Wp	233Wp	320Wp	237Wp	325Wp	241Wp	330Wp	245Wp
Maximum Power Voltage (Vmp)	37.0V	34.4V	37.2V	34.7V	37.4V	34.7V	37.6V	35.0V	37.8V	35.3V
Maximum Power Current (Imp)	8.38A	6.68A	8.48A	6.71A	8.56A	6.83A	8.66A	6.89A	8.74A	6.94A
Open-circuit Voltage (Voc)	45.9V	42.7V	46.2V	42.8V	46.4V	43.0V	46.7V	43.3V	46.9V	43.6V
Short-circuit Current (Isc)	8.96A	7.26A	9.01A	7.28A	9.05A	7.35A	9.10A	7.40A	9.14A	7.45A
Module Efficiency STC (%)	15.9	98%	16.2	23%	16.	.49%	16.	75%	17.0	01%
Operating Temperature(°C)					-40°C-	~+85°C				
Maximum system voltage					1000VE	DC (IEC)				
Maximum series fuse rating					1	15A				
Power tolerance					0~	~+3%				
Temperature coefficients of Pmax					-0.4	41%/°C				
Temperature coefficients of Voc					-0.3	31%/°C				
Temperature coefficients of Isc					0.0	06%/°C				
Nominal operating cell temperature	(NOCT)				4	5±2℃				















The company reserves the final right for explanation on any of the information presented hereby. EN-MKT-330P_v1.0_rev2016

^{*} Power measurement tolerance: ± 3%

SOLAR INVERTER





Smart String Inverter



SUN2000-50KTL-M0



Smart

- 12 strings intelligent monitoring and fast trouble-shooting
- Power Line Communication (PLC) supported
- Smart I-V Curve Diagnosis supported

Efficient

- Max. efficiency 98.7%
- European efficiency 98.5%
- 6 MPPT per unit, effectively reducing string mismatch



- DC switch integrated, safe and convenient for maintenance
- Residual Current Monitoring Unit (RCMU) integrated
- Fuse free design



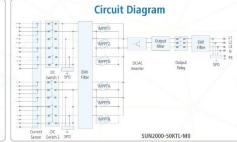
- Natural cooling technology
- Protection degree of IP65
- Type II surge arresters for both DC and AC

Smart String Inverter (SUN2000-50KTL-M0)



Technical Specifications	SUN2000-50KTL-M0
	Efficiency
Max. Efficiency	98.7%
European Efficiency	98.5%
100	Input
Max. Input Voltage	1,100 V
Max. Current per MPPT	22 A
Max. Short Circuit Current per MPPT	30 A
Start Voltage	200 V
MPPT Operating Voltage Range	200 V ~ 1,000 V
Rated Input Voltage	600 V
Number of Inputs	12
Number of MPP Trackers	6
	Output
Rated AC Active Power	50,000 W
Max. AC Apparent Power	55,000 VA
Max. AC Active Power (cosφ=1)	55,000 W
Rated Output Voltage	220 V / 380 V, 230 V / 400 V, default 3W + N + PE; 3W + PE optional in settings
Rated AC Grid Frequency	50 Hz / 60 Hz
Rated Output Current	76 A @380 V / 72.2 A @400 V
Max. Output Current	83.6 A @380 V / 79.4 A @400 V
Adjustable Power Factor Range	0.8 LG 0.8 LD
Max. Total Harmonic Distortion	< 3%
	Protection
Input-side Disconnection Device	Yes
Anti-islanding Protection	Yes
AC Overcurrent Protection	Yes
DC Reverse-polarity Protection	Yes
PV-array String Fault Monitoring	Yes
DC Surge Arrester	Type II
AC Surge Arrester	Type II
DC Insulation Resistance Detection	Yes
Residual Current Monitoring Unit	Yes
	Communication
Display	LED Indicators, Bluetooth + APP
RS485	Yes
USB	Yes
Power Line Communication (PLC)	Yes
	General
Dimensions (W x H x D)	1,075 x 555 x 300 mm (42.3 x 21.9 x 11.8 inch)
Weight (with mounting plate)	74 kg (163.1 lb.)
Operating Temperature Range	-25°C ~ 60°C (-13°F ~ 140°F)
Cooling Method	Natural Convection
Max. Operating Altitude	4,000 m (13,123 ft.)
Relative Humidity	0~100%
DC Connector	Amphenol Helios H4
AC Connector	Cable Gland + OT Terminal
Protection Degree	IP65
Topology	Transformerless
	Standard Compliance (more available upon request)
Certificate	EN 62109-1/-2, IEC 62109-1/-2, EN 50530, IEC 62116, IEC 62910, IEC 60068, IEC 61683
Grid Code	IEC 61727, G59/3, AS/NZS 4777.2

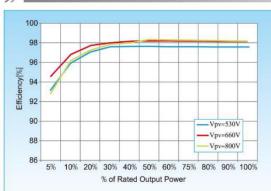




3-Phase String Inverter

>>> 50000TL/60000TL/70000TL





Efficiency Curve

High-yield

- Real time precise MPPT algorithm for max harvest
- Wide input voltage operation range from 250V to 960V

All in one, flexible and economical system solution

- · DC switch
- DC surge protection device
- AC surge protection device (option)
- Built-in PV Combiner
- Power management unit
- · Optimum selection for big PV plants, commercial buildings...

Low maintenance cost

- · Detachable cover for easy installation
- Rust-free aluminum covers · Flexible monitoring solution
- · Multi function relay can be configured to show various inverter

Intelligent grid management

- ZVRT support
- · Reactive power adjustable
- · Self power reducer when over frequency
- Remote active/reactive power limit control

>>> 50000TL/60000TL/70000TL

echnical Data	50000TL	60000TL	70000TL					
nput(DC)								
Max.Input power	55000W	66000W	77000W					
Max DC power for single MPPT	22000W(500V-800V)	22000W(530V-800V)	26000W(660V-800V					
Number of independent MPPT	22000**(500**000*)		20000**(000** 000*					
Number of DC inputs	3 4/3/3 4/4/4							
Max. input voltage	4/3/3	1000V	7/7					
tart-up input voltage		350V						
Rated input voltage	600V	600V	700V					
	600V	250V-960V	7000					
MPPT voltage range	500V-800V	530V-960V 530V-800V	660V-800V					
Full load DC voltage range								
Max. input MPPT current	40A/30A/30A	40A/40A/40A	40A/40A/40A					
Max. input current per string		12A						
Output(AC)								
Rated power(@230V,50Hz)	50000W	60000W	70000W					
Max. AC power	50000VA	60000VA	70000VA					
Max. output current	80A	90A	90A					
Nominal Grid Voltage		3/N/PE,3/PE,230/400Vac	3/N/PE, 277/480Va or 3/PE, 277/480Va					
Grid Voltage Range	180Vac-270Vac	180Vac-270Vac	245Vac-305Vac					
Nominal Frequency		50/60Hz						
Grid frequency range	47~53 / 5	7~63Hz (According to local	standard)					
Active power adjustable range		0~100%	,					
rhdi		<3%						
Power factor		1(Adjustable +/-0.8)						
		2(//a)astas/c // 5/6/						
Performance								
Max efficiency	98.5%	98.6%	98.6%					
European weighted efficiency	98.3%	98.4%	98.4%					
self-consumption at night		<1W						
eed-in start power		45W						
MPPT efficiency		>99.9%						
Protection								
OC reverse polarity protection		Yes						
DC switch		Yes						
Protection class /overvoltage category		1/111						
nput/output SPD(II)		Optional						
Safety protection	Anti island	ling, RCMU, Ground fault m	onitoring					
ertification		7,IEC 61683,IEC 60068(1,2,14 100,VDE4105,C10-C11,G59(n						
ARPC	Anti Re	verse Power Controller(op	tional)					
Communication								
ower management unit	Accor	ding to certification and re	quest					
standard Communication Mode		otional), SD card, Multi-fu						
Operation Data Storage		25 years						
General data		5						
Ambient temperature range		-25°C+60°C						
opology		Transformerless						
Degree of protection		IP65						
Allowable relative humidity range		0100% no condensing						
		4000m						
Max.operating altitude								
Noise	501-	<60dB						
Weight	68kg	701	Kg					
Cooling		Fan						
Dimension		737*713*297mm						
Display		LCD display						
Warranty		5 years						









Product Range





Key Facts



Long Battery Life

Design life 18 years and up to 6000 charge/discharge cycle [20%DOD]



Long Shelf Life Storable for two years without need of refresh charging



Better Performance

Charges two times faster then alternatives



Full Recovery
Can be discharged 100% and charged in daily basis



Guarantee

3 years (Terms & Conditions apply)



Recyclable up to 99%



Cleaner

No Cadmium or Antimony and less acid



Safer

No leakage



Easy to transport Non-hazardous for any kind of transportation



Works on extreme temperatures

From -40°C up to +65°C

AE Solar GmbH AE Solar GmbH



LiFePO4 Battery





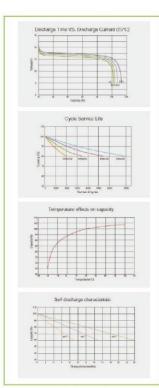


Introduction

• The lithium ironphosphate (Lifepo 4) is a type ofrechargeable battery based on the orriginal lithium ion chemistry, created by the use of Iron (FE) as a cathode material. LIFePO 4 cells have higher discharge current do not explode under extreme conditions and wegh less but have lower voltage and energy density than normal Li-lion cells.

Specification

ITEM	SPECIFICATION				
Nominal Volt Range	12V / 24V / 48V /				
Capacity Range in Ah	3Ah - 300Ah				
Container Material	ABS / PVC / Iron /				
Nominal Cell Volt	3.2V				
Cell Capacity Range	1Ah-120Ah				
Cell Model	18650 / 26650 /32650 / 50Ah /				
Battery Cell Shape	Cylindrical / Prismatic				
Limited Charging Voltage	3.65V/cell				
Max Charging Current	1C				
Recommendation Charging Current	0.5C				
Charging Method	CC/CA				
Discharge Cut-off Volt	2.75V/cell				
Max Discharging Current	2C				
Recommendation Discharging Current	0.5C				
Operating Temp. Range	-20°C - 60°C				
Storage Environment	-20°C-45°C in three months 25±3°C over three months 26:27 Humidity: 65±20%RH				
DOD Cycles up to	2000 @100% DOD 3500 @80% 5500 @60% DOD 8000 @30% DOD				
Design Lifespan(Year)	15-20 Year				
BMS Function	Over-charge protection Over-discharge protection Over-current protection Short-circuit protection Charging control Balance Current				



Performanch

Product List

MODEL	VOLT	CAPACITY	APPROX.WEI GHT	DIMENSION BOX (L×W×H×TH)	MATERIAL	TERMINAL
SL12-3	12V	3Ah	38.4WH	90x70x101mm	ABS/PVC/Iron	Optional
SL12-4	12V	4Ah	51.2WH	90x70x101mm	ABS/PVC/Iron	Optional
SL12-5	12V	5Ah	64.0WH	90x70x101mm	ABS/PVC/Iron	Optional
SL12-7.5	12V	7.5Ah	96.0WH	151x65x94mm	ABS/PVC/Iron	Optional
SL12-10	12V	10Ah	128.0WH	151x65x94mm	ABS/PVC/Iron	Optional
SL12-12	12V	12Ah	153.6WH	151x98x95mm	ABS/PVC/Iron	Optional
SL12-15	12V	15Ah	192.0WH	151x98x95mm	ABS/PVC/Iron	Optional
SL12-16	12V	16Ah	204.8WH	181x77x167mm	ABS/PVC/Iron	Optional
SL12-20	12V	20Ah	256WH	181x77x167mm	ABS/PVC/Iron	Optional
SL12-32	12V	32Ah	409.6WH	195x130x155mm	ABS/PVC/Iron	Optional
SL12-33	12V	33Ah	422.4WH	195x130x155mm	ABS/PVC/Iron	Optional
SL12-36	12V	36Ah	460.8WH	195x130x155mm	ABS/PVC/Iron	Optional
SL12-40	12V	40Ah	512.0WH	195x130x175mm	ABS/PVC/Iron	Optional
SL12-55	12V	55Ah	704.0WH	239x132x205mm	ABS/PVC/Iron	Optional
SL12-60	12V	60Ah	768.0WH	239x132x205mm	ABS/PVC/Iron	Optional
SL12-100	12V	100Ah	1280.0WH	329*172*214*243mm	ABS/PVC/Iron	Optional
SL12-120	12V	120Ah	1536.0WH	406*174*207*232mm	ABS/PVC/Iron	Optional
SL12-150	12V	150Ah	1920.0WH	483*170*240*240mm	ABS/PVC/Iron	Optional
SL12-200	12V	200Ah	2560.0WH	522*240*219*244mm	ABS/PVC/Iron	Optional
SL12-250	12V	250Ah	3200.0WH	520*269*220*249mm	ABS/PVC/Iron	Optional
SL12-300	12V	300Ah	3840.0WH	520*269*220*249mm	ABS/PVC/Iron	Optional
SL24-10	24V	10Ah	256.0WH	CUSTOM	ABS/PVC/Iron	Optional
SL24-20	24V	20Ah	512.0WH	CUSTOM	ABS/PVC/Iron	Optional
SL24-30	24V	30Ah	768.0WH	CUSTOM	ABS/PVC/Iron	Optional
SL24-40	24V	40Ah	1024.0WH	CUSTOM	ABS/PVC/Iron	Optional
SL24-50	24V	50Ah	1280.0WH	CUSTOM	ABS/PVC/Iron	Optional
SL24-60	24V	60Ah	1536.0WH	CUSTOM	ABS/PVC/Iron	Optional
SL24-80	24V	80Ah	2048.0WH	CUSTOM	ABS/PVC/Iron	Optional
SL24-100	24V	100Ah	2560.0WH	CUSTOM	ABS/PVC/Iron	Optional
SL48-10	48V	10Ah	512.0WH	CUSTOM	ABS/PVC/Iron	Optional
SL48-20	48V	20Ah	1024.0WH	CUSTOM	ABS/PVC/Iron	Optional
SL48-30	48V	30Ah	1536.0WH	CUSTOM	ABS/PVC/Iron	Optional
SL48-40	48V	40Ah	2048.0WH	CUSTOM	ABS/PVC/Iron	Optional
SL48-50	48V	50Ah	2560.0WH	CUSTOM	ABS/PVC/Iron	Optional
SL48-60	48V	60Ah	3072.0WH	CUSTOM	ABS/PVC/Iron	Optional
SL48-80	48V	80Ah	4096.0WH	CUSTOM	ABS/PVC/Iron	Optional
SL48-100	48V	100Ah	5120.0WH	CUSTOM	ABS/PVC/Iron	Optional





PWM controller

Solar Inverter controller

- 10A 20A 30A 50A 60A solar charge controller
- Vivid LCD graphic symbols
- Simple button operation
- · Automatic identification of system voltage level
- Intelligent PWM charging mode
- Adjustable charge-discharge protection
- Automatic temperature compensation
- Settable operation mode of load
- Battery reverse-discharge protection
- Battery low voltage disconnection(LVD)
- Battery reverse connection protection Over current protection
- USB output

Introduction:

This intelligent, multi-purpose solar charge and discharge controller has a very friendly interface of fixed LCD display. Various control parameters can be flexibly set, fully meet your various application requirements.





















SMD



Small Size Light Weight More Accurate

Specification

	MODEL			s	PWM				
	System voltage		12V/24V			48	V		
	Max input voltage	25V	1	50V		100	OV		
	Self-consumption			_	12mA	-			
	Max charge current	40A	50A	60A	50A		60A		
	Max discharge current	40A	50A	60A	50A	50A 60A			
	LVD		11.0V/22	V		44	V		
		12.6V	12.6V ADJ 11V13.5V		50.00				
	LVR	25.2V	ADJ	11V27V	50.4V	AD.	J 11V54V		
		13.8V	ADJ	13V15V	55.01	55.01/			
	Float voltage	27.6V	ADJ	13V30V	55.2V	AD.	J 13V60V		
	Boost charging		1PCS Battery voltage less than 12v start boost charging 2 hours						
S2460	Battery Over Voltage Protetion		16.5V/33	V		66	V		
	Charging mode			ı	PWM				
	T	-24	4mV/C° for 1	2sy stem;	000		- 40		
	Temperature Compensation	-48	BmV/C° for 2	4system;	-90	imv/C 10	r 48system;		
	Working temperature			-20	C~ 50°C				
	Terminal scale			14-	6AWG				
	Waterproof grade	IP32							
	Size		220*128*44mm						
-	Net weight	480g							
	Carton size		470*434*305mm						
	PCS/CTN	24PCS							
		1							
	System voltage		96V			96	V		
	Max input voltage			:	200V				
	Self-consumption			\$	12mA				
	Max charge current		50A			100	DA .		
	Max discharge current	50A							
	LVD	88V							
	LVR	100.8V ADJ 11V108V							
	Float voltage				108V				
	Boost charging		1PCS Batte	ry voltage less tha	n 12v start boost	charging 2	2 hours		
S96100	Battery Over Voltage Protetion			1	112V				
030100	Charging mode			F	PWM				
	Temperature Compensation			-4m	V/C°/2V				
	Working temperature		-20°C~ 50°C						
	Terminal scale			14-	6AWG				
	Waterproof grade				P32				
	Size		150*135*63	imm	1	250*200	*85mm		
	Net weight		- Auto-on	1.	15kg				
	Carton size				35*63mm				
	PCS/CTN			1	PCS				
		1100							









LCD display 12V / 24V Auto

PWM

USB Output







Components

Single Poled Structure

O5

Dual Poled Structure (ST1-C)

Ground Mounting ST1

O6

ST3 Aluminum Ground Mounting

Pole Mounting System

11-12

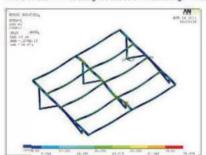
Solar Carport Mounting

Solar Far

Ground Screw

••• 01 Reasonable design and solution

All the solution will be designed based on strict strength calculation.





Rails





ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
R1-2560	AI 6005-T5	2560mm	2690 G	Anodized
R1-3405	AI 6005-T5	3405mm	3580 G	Anodized
R1-4200	AI 6005-T5	4200mm	4410 G	Anodized
R1	AI 6005-T5	Customized		Anodized

R



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
R2-2560	AI 6005-T5	2560mm	2230 G	Anodized
R2-3405	AI 6005-T5	3405mm	2960 G	Anodized
R2-4200	AI 6005-T5	4200mm	3650 G	Anodized
R2	AI 6005-T5	Customized		Anodized

R



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
R4-2560	AI 6005-T5	2560mm	3280 G	Anodized
R4-3405	AI 6005-T5	3405mm	4360 G	Anodized
R4-4200	AI 6005-T5	4200mm	5380 G	Anodized
R4	AI 6005-T5	Customized		Anodized

No.

ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
R6-2560	AI 6005-T5	2560mm	2480 G	Anodized
R6-3405	AI 6005-T5	3405mm	3300 G	Anodized
R6-4200	AI 6005-T5	4200mm	4700 G	Anodized
R6	AI 6005-T5	Customized	+	Anodized

R-SI



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
R-SP	Al 6005-T5	190mm	105 G	Anodized

Framed panel clamps

IC



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IC-35	AI 6005-T5	35mm	58.0 G	Anodized
IC-40/42	AI 6005-T5	40/42mm	59.6 G	Anodized
IC-45/46	AI 6005-T5	45/46mm	62.0 G	Anodized
IC-50	AI 6005-T5	50mm	62.8 G	Anodized

EC



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
EC-35	AI 6005-T5	35mm	50.4 G	Anodized
EC-40	AI 6005-T5	40mm	52.8 G	Anodized
EC-42	AI 6005-T5	42mm	54.4 G	Anodized
EC-45	AI 6005-T5	45mm	55.0 G	Anodized
EC-46	AI 6005-T5	46mm	55.1 G	Anodized
EC-50	AI 6005-T5	50mm	56.8 G	Anodized

IC(C)



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IC(C)-35	AI 6005-T5	35mm	53.8 G	Anodized
IC(C)-40	AI 6005-T5	40mm	55.6 G	Anodized
IC(C)-45	AI 6005-T5	45mm	57.0 G	Anodized
IC(C)-50	AI 6005-T5	50mm	58.6 G	Anodized

EC(C)



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
EC(C)-35	AI 6005-T5	35mm	50.6 G	Anodized
EC(C)-40	AI 6005-T5	40mm	52.5 G	Anodized
EC(C)-45	AI 6005-T5	45mm	56.2 G	Anodized
EC(C)-50	AI 6005-T5	50mm	59.4 G	Anodized

1	III
ON	
1	Militar

ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
AE	AI 6005-T5	35-50mm	65.0 G	Anodized

Thin film solar clamps

IC-Type1



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IC-Type1	AI 6005-T5	For Thin Film Panel	101.2 G	Anodized

EC-Type1



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
EC-Type1	AI 6005-T5	For Thin Film Panel	84.0 G	Anodized

IC-Type3



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
IC-Type3	AI 6005-T5	For Thin Film Panel (No Bolt,No Nut)	79.5G	Anodized

EC-Type3



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
EC-Type3	AI 6005-T5	For Thin Film Panel (No Bolt,No Nut)	55G	Anodized

Grounding Components



ITEM NO.	Description	Material	WEIGHT	SURFACE
GW	Grounding Washer	SUS 304	3.6 G	Clean



ITEM NO.	Description	Material	WEIGHT	SURFACE
GL	Grounding Lug	Al6005-T5&SUS304	36.6 G	Clean



ITEM NO.	Description	Material	WEIGHT	SURFACE
BJ	Bonding Jumper	Copper&Steel	75.8 G	Clean

Cable Clips

CC1



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
CC1	SUS304	1~2 cables	2.5G	Clean

CC2



ITEM NO.	MATERIAL	SPEC.	WEIGHT	SURFACE
CC2	SUS304	3~4 cables	5.5G	Clean

Single Pole Structure

new

Single Poled Structure racking system designed to last for 25 years. Its design allows for quickly delivery and easy installation, which will save your labor cost.



Dual Pole Structure (ST1-C)

Dual Poled Structure racking system designed to last for 25 years. Its design requires lower material which ensure lower mounting cost. Highly pre-assembly also save your labor cost on site.





Ground Mounting ST1

St1 Ground mounting is a solution including steel structure and aluminum rails. It is suitable for both small and large-scale solar plants. With a flexible connection, it can be installed onto the concrete base, and also the earth ground, even the slope can also be workable.

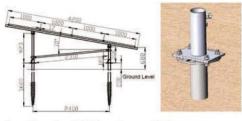


Brief Introduction

- Material: Steel Q235 & Aluminum 6005-T5
- Installation Site:Open Field, Earth or concret ground
- · Height from the Ground: According to your requirement
- Module Tilt Angle : 0~60°according to your requirement or latitude
- Max. Wind Speed:60m/s;
- Snow Load;1.4KN/m¹
- . Warranty: 10 years warranty; 25 years service life.

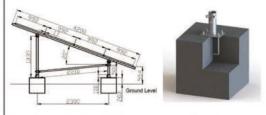
Connecting Solutions

1. Ground Screws



Ground Screw is suitable for earth ground footing The ground screw should be 200mm out of ground

2.Concrete Foundations



Concrete foundation is suitable for concrete or sand ground

Components Parts



◆Function

the end of panel

Fix panel on the rail at

New Design for T connector

Fix panel on the rail in the inner part

Advantage of T connector

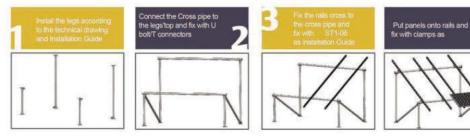
◆Function

the mounting

Increase the strength of



Brief Installation Guide



ST3 Aluminum Ground Mounting

St3 Aluminium Ground Mounting is usually applicable to the open field, not only for residential projects, but also for the big commercial projects. For its strong and powerful structure and its nice appearance, the St3 Ground Mounting win a good market all over the world.



Brief Introduction

- Installation Site: Open field/ Ground
- Module Angle: 10-60 degrees
- Max. Wind Speed: 60 m/s
- . Snow Load: 1.4 KN/m
- Material: Aluminum 6005-T5
- Warranty: 10 years warranty; 25 years service life.



Components Parts



FL/RL

- ◆ Description Front/rear leg. Al 6005-T5
- **◆**Function Support the frame



LA

- Description Leg base, Al 6005-T5
- **♦**Function Fix front/rear leg on base



Rack

- ◆ Description Support Rack
- **♦**Function Support the rail and solar panel



- Description Rail,Al6005-T5
- **◆**Function The frame support the solar panel



Clamp

- ◆ Description Fixing clamp
- **♦**Function Fix the rail to the support rack



Clamp-A

- Description Fixing clamp with self taping screw
- The clamp with self taping screw can prevent the rail slide.



IC

- Description Mid clamp, Al 6005-T5& SUS 304
- Fix panel on the rail in the inner part



EC

- ◆ Description End clamp, Al 6005-T5& SUS 304
- Fix panel on the rail at the end of panel

Advantages



The clamp with self taping screw can prevent the rail slide.



The ripples on the foot base can make it be anti-skid and stronger



Highly pre-assembled, save cost and time

Brief Installation Guide









Put the rail onto the rack, and main installation will be finished

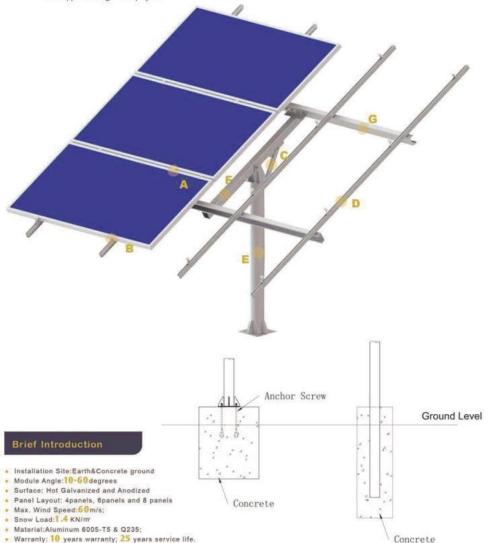




Pole Mounting system

Pole Mount System is a ground solar panel mounting system on one single pole that delivers flexible, effective and durable design to mount 4, 6 or 8 panels per pole. This pole ground solar panel mounting system can be applied to large commercial scale installations, and the pole system is combined with hot-galvanized steel and aluminum which offers good

The single pole mounting system can be designed to be adjustable if required by customers. With the efficient structural design. Pole mount system saves installation time and minimizes labor cost for developers, operators and installers when applied to large scale projects.



Components Parts



- Description Mid clamp, Al 6005-T5& SUS 304
- **◆**Function Fix panel on the rail in the inner part



EC

- Description End clamp, Al 6005-T5& SUS 304
- Fix panel on the rail at the end of panel



Pole2

- ♦ Description Adjustment Beam, Steel Q235
- ◆Function To adjust the angle



R

- ◆ Description Rail: Extruded Aluminum Profile. Al6005-T5. 2560mm,3405mm and 4200mm are the
- standard size **♦**Function
- The frame supports the solar panel



Pole1

- ◆ Description Main Pole, Steel Q235
- **♦**Function Support on the ground



Pole2

- ◆ Description Main Support, Steel Q235
- **♦**Function Support the Beam



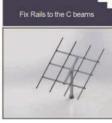
Pole4

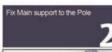
- ◆ Description
 C Beam, Steel Q235
- **♦**Function Support the rail







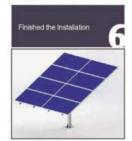












Solar Carport Mounting

With great flexibility, the Solar carport can be applicated for both commercial and residential areas. The Carport capacity can be customized as per customers' request. The whole structure is made of Aluminum and the fastener will be stainless steel.



Brief Introduction

- Installation Site:Ground;Open field
- Module Angle:0-20 degrees
- Max. Building Height: Customized
- Max. Wind Speed:60m/s;
 Snow Load:1.4 KN/m²
- Material: Aluminum 6005-T5 & Stainless Steel 304;
- Warranty: 10 years warranty; 25 years service life.

Other Options







Waterproof method is to put a metal roof on the top.

Brief Installation Guide

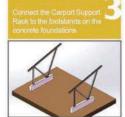






Install the footstand onto the concrete







Components Parts



EC◆ Description
Mid clamp, AI 6005-T5&
SUS 304

◆Function Fix panel on the rail in the inner part



IC

◆ Description
End clamp, Al 6005-T5&
SUS 304

◆Function Fix panel on the rail at the end of panel



STC-FL/R

Description
 Front/Rear leg, Al6005-T5

Function
 To support the whole panel and rack.



STC-FLA

◆ Description Footstand A ,AI6005-T5

◆Function
To fix front leg to the concrete base



STC-LA

◆ Description Footstand B ,Al6005-T5

◆Function
To fix rear leg to the concrete base



STC-R16

Description
 Sloped beam, Al6005-T5

◆Function Supports the rails



R8

Description

◆ Description Rail,Al6005-T5

◆Function
The frame supports the solar panel



Clamp

◆ Description Clamp A :Al6005-T5

◆Function
To fix the rail to the sloped beam

Solar Farm

Solar farm has been a classic applications of solar energy. With all traditional functions, Solar farm can protect the plants from extreme weather and gather heat for fast growing. Furthermore, reasonable design ensures the photosynthesis work normally.

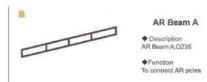


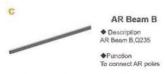
Components Parts

AR Pole

Description
AR Pole, Q235

Function
This pole support the whole solar farm brackets.









AR Triangle support

- Description
 Triangle support, aluminum
 6005-TS
 Function
- ◆Function
 The frame supports the rail

F



◆ Description Mid clamp, Al 6005-T58 SUS 304

◆Function
Fix panel on the rail in the inner part



► Description End clamp, Al 6005-T5& SUS 304

◆Function
Fix panel on the rail at the end of panel



R

Description
Rail:Extruded Aluminum
Profile, Al5005-T5,
2560mm, 3405 and 4200 are the

◆Function
The frame supports the solar panel

etandard size

Brief Installation Guide

Position the pole location and fix the pole to the ground















Brief Introduction

- Installation Site:open field
- . Moudle Angle :0-60degrees
- Max. Wind Speed: 60m/s;
- . Snow Load:1.4 KN/m
- Material; Aluminum 6005-T5 & Q235;
- Warranty: 10 years warranty; 25 years service life.

Advantages



Highly pre-assembled components before delivery makes the installation to be easier and save much cost



Easy installation with humanized user guide



Reliable calculation and testing make the system to be more economic and safer.

Ground Screw

Ground Screw is made of Q235 material. We have flange top and tube top types with different specification. Our standard thickness is 3mm,3.5mm and 2.75mm and length with 1200mm, 1800mm, 1800mm,2000mm. The length and size could also be customized. It can be used for many kinds of application, like Timer-Frame Construction; Advertising and traffic systems;Urban, Garden and Landscape Consctruction; Hall and container Construction; Fencing Systems,Solar systems; Flag Poles & Banners etcs,



Brief Introduction

- Material:Q235
- . Surface:Hot dip galvanization
- Thickness:3.0mm/2.75mm/3.5mm
- Series:Flange Top, Tube Top
- . Warranty: 10 years warranty; 25 years service life.

Advantages



Compatibility with all type of structures.

Our technical department will adapt the head of our ground screw piles to whatever the need of the customer is.



Foundation solution concrete free

No need of Concrete base.



Surrounding areas remains unspoiled

The special configuration of our products allows the insertion without performing land preparation works, which allows a significant cost reduction.



Easy removal simple and easy to relocate

One of the main adavantages of our ground screw piles is the possibility of removing them, reducing the environmental impact and minimizing the removing costs.

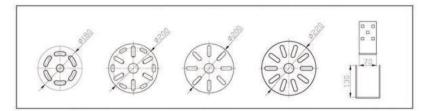
Ground Screw



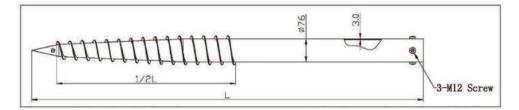
Specification

NO	Code1	Surface	Material	H(mm)	D(mm)	Galvanized Surface	Thickness			
01	F76×L 2	Hot Galvanized Q23		Customized	76	≥ 80 µm				
02	F76×L-4		d Q235	Customized	76	≥ 80 µm				
03	F76×L			Q235	0005	0005	Customized	76	≥ 80 µm	3.5mm/ 2.75mn
04	N76×L				Customized	76	≥ 80 µm	3.0mm		
05	F76×L—A			Customized	76	≥ 80 µm				
06	F76×L U			Customized	76	≥ 80 µm				

Flange Type



Tube Type







Model:	Model: SE-CH20			Specifications			
20W A11	in one	solar stre	et light	C-11	Max power	18V 35W (Monocrystalline silicon)	
				Solar panel	Life span	25 years	
				D-++	Туре	LiFe PO4 12.8V 18AH	
				Battery	Life span	5-8 years	
-					Power	12V 20W	
		•	1-)	LED C	Chips brand	PHILIPS high efficiency 3030 led chips	
		-	-/	LED Source	lumens	150-1601m/W	
40			- 5		Life span	50000 hours	
	9 0			Installation	Mounting height:	4-5M, Mounting distance:15M	
				Pole	Diamter: ∮60-∮105mm (up to down)		
			Lamp body material	Aluminium Alloy, with good heat dissipation performance			
4			1/. 11	Charging time	6-7hours (with enough strong shine)		
4		6		Lighting time	10-12 hours per	day, sustain 3-5 rainy days	
				Working mode	PIR sensor and 1	ight control	
				Catificates	CE、ROHS、IP65		
				Warranty	3 years		
4		2 × × × × × × × × × × × × × × × × × × ×	CANAN P		Product size	680*205*60mm	
					N. W.	5. 1KGS	
		0		Packing	Package size	720*260*220mm	
					G. W.	6. 6KGS	
] #.	.		Q'ty/ctn:	1set/ctn	
- L		4		Container	20GP	660PCS	
				Container	40HQ	1600PCS	



Model: SE-CH30		Specif	ications	
30W All in one solar st	reet light	Max power	18V 50W (Monocrystalline silicon)	
	Solar panel	Life span	25 years	
	D-++	Type	LiFe PO4 12.8V 21AH	
	Battery	Life span	5-8 years	
		Power	12V 30W	
	LED Source	Chips brand	PHILIPS high efficiency 3030 led chips (50PCS *2=100PCS)	
1		lumens	150-1601m/W	
		Life span	50000 Hours	
	Installation	Mounting heigh	Mounting height: 5-6M, Mounting distance: 20M	
	Installation	Pole upper Dia	Pole upper Diamter: ∮60-∮105mm	
	Lamp body material	Aluminium Allo	Aluminium Alloy	
	Charging time	6-7hours (with	enough strong shine)	
	Lighting time	10-12 hours pe	er day, sustain 3-5 rainy days	
	Working mode	PIR sensor and	l light control	
	Catificates	CE、ROHS、TUV、	IP65	
	Warranty	3 years		
		Product size	1060*205*60mm	
	THE	N. W.	8. 5KGS	
THE REAL PROPERTY.	Packing	Package size	1100*260*220mm	
9	0	G. W.	10. 25KGS	
	5	Q'ty/ctn:	1set/ctn	
. 1	Container	20GP	440PCS	
	Container	40HQ	1050PCS	



Model: SE-CH40		Specifi	cations	
40W All in one solar street li	Solar panel	Max power	18V 50W (Monocrystalline silicon)	
	Solar panel	Life span	25 years	
	Datta	Туре	LiFe PO4 12.8V 24AH	
di o di	Battery	Life span	5-8 years	
		Power	12V 40W	
The state of the s	LED Source	Chips brand	PHILIPS high efficiency 3030 led chips (50PCS *2=100PCS)	
		1umens	150-1601m/W	
		Life span	50000 Hours	
Constant of the Constant of th		Mounting height: 5-6M, Mounting distance: 20-25M		
	Installation	Pole upper Diamter: ∮60-∮105mm		
	Lamp body material	Aluminium Alloy		
	Charging time	6-7hours (with	enough strong shine)	
	Lighting time	10-12 hours per	day, sustain 3-5 rainy days	
	Working mode	PIR sensor and	light control	
	Catificates	CE、ROHS、TUV、	IP65	
	Warranty	3 years		
		Product size	1060*205*60mm	
		N. W.	8. 5KGS	
	Packing	Package size	1100*260*220mm	
0 0		G. W.	10. 25KGS	
		Q'ty/ctn:	1set/ctn	
	Containen	20GP	440PCS	
	Container	40HQ	1050PCS	



		SOLAR	POWE	E K			
Model:	SE-CH50		Specifi	cations			
50W A11	in one solar street li		Max power	18V 70W (Monocrystalline silicon)			
		Solar panel	Life span	25 years			
		D	Туре	LiFe P04 12.8V 33AH			
		Battery	Life span	5-8 years			
	to all		Power	12V 50W			
		LED Source	Chips brand	PHILIPS high efficiency 3030 led chips (50PCS *3=150PCS)			
			1umens	150-1601m/W			
	4000		Life span	50000 Hours			
		Installation	Mounting height	: 6-7M, Mounting distance: 20-25M			
		Installation	Pole upper Diamter: ∮60-∮76mm				
		Lamp body material	Aluminium Alloy				
	4111	Charging time	6-7hours (with enough strong shine)				
		Lighting time 10-12 hours per day, sustain 3-5 rainy day					
		Working mode	PIR sensor and	light control			
		Catificates	CE、ROHS、TUV、	IP65			
		Warranty	3 years				
			Product size	Lamp: 1406*205*60mm Sleeve: 405*150*290mm			
	0 0		N. W.	Lamp: 9.0KGS Sleeve: 5.5KGS			
	A 1	Packing	Package size	Lamp: 1436*260*130mm Sleeve: 420*170*315mm			
			G. W.	Main Lamp: 11.0KGS Sleeve: 6.4KGS			
			Q'ty/ctn:	lset/2ctns			
		Container	20GP	380PCS			
		Container	40HQ	940PCS			



Model: | 60W All

Е-СН60	Specifications						
in one solar street li	is .	Max power	18V 70W (Monocrystalline silicon)				
	Solar panel	Life span	25 years				
	D	Туре	LiFe PO4 12.8V 36AH				
	Battery	Life span	5-8 years				
		Power	12V 60W				
	LED Source	Chips brand	PHILIPS high efficiency 3030 led chips (50PCS *3=150PCS)				
		lumens	150-1601m/W				
		Life span	50000 Hours				
	Installation	Mounting height	:: 7-8M, Mounting distance: 20-25M				
	Installation	Pole upper Diamter: ∮60-∮76mm					
	Lamp body material	Aluminium Alloy	1				
	Charging time	6-7hours (with enough strong shine)					
	Lighting time	ghting time 10-12 hours per day, sustain 3-5 rainy days					
	Working mode	PIR sensor and light control					
	Catificates	CE、ROHS、TUV、	IP65				
	Warranty	3 years					
		Product size	Lamp: 1406*205*60mm Sleeve: 405*150*290mm				
		N. W.	Lamp: 9.0KGS Sleeve: 5.5KGS				
	Packing	Package size	Lamp: 1436*260*130mm Sleeve: 420*170*315mm				
		G. W.	Main Lamp: 11.5KGS Sleeve: 6.4KGS				
		Q'ty/ctn:	1set/2ctns				
	0	20GP	380PCS				
	Container	40HQ	940PCS				



odel:	SE-CH60	Specifications						
OW A11	in one solar street li	Solar panel	Max power	18V 70W (Monocrystalline silicon)				
		Solar panel	Life span	25 years				
		D	Туре	LiFe PO4 12.8V 36AH				
fix		Battery	Life span	5-8 years				
1			Power	12V 60W				
-		LED Source	Chips brand	PHILIPS high efficiency 3030 led chips (50PCS *3=150PCS)				
18			lumens	150-1601m/W				
皇	4444		Life span	50000 Hours				
-		Installation	Mounting height	: 7-8M, Mounting distance: 20-25M				
- 13		Installation	Pole upper Diamter: ∮60-∮76mm					
100	ADDIES	Lamp body material	Aluminium Alloy					
10	Carrier III	Charging time	6-7hours (with enough strong shine)					
		Lighting time	10-12 hours per day, sustain 3-5 rainy days					
- 11		Working mode	PIR sensor and light control					
- 11		Catificates	CE, ROHS, TUV,	IP65				
- 12	a all anner	Warranty	3 years					
			Product size	Lamp: 1406*205*60mm Sleeve: 405*150*290mm				
	0 0		N. W.	Lamp: 9.0KGS Sleeve: 5.5KGS				
- 1		Packing	Package size	Lamp: 1436*260*130mm Sleeve: 420*170*315mm				
			G. W.	Main Lamp: 11.5KGS Sleeve: 6.4KGS				
			Q'ty/ctn:	1set/2ctns				
		Container	20GP	380PCS				
		Container	40HQ	940PCS				





		Quotat	ion			
Model:	SE-CH80		Specific	cations		
80W All	in one solar street light		Max power	18V 100W (Monocrystalline silicon)		
		Solar panel	Life span	25 years		
	•	Dattami	Туре	LiFe PO4 12.8V 42AH		
	(建筑建筑中)	Battery	Life span	5-8 years		
			Power	12V 80W		
	-100	LED Source	Chips brand	PHILIPS high efficiency 3030 led chips (90PCS)		
			lumens	150-160lm/W		
	0 0		Life span	50000 Hours		
		Installation	Mounting height: 8-9M, Mounting distance: 20-25M			
		installation	Pole upper Diamter: ∮ 76- ∮ 105mm			
		Lamp body material	naterial Aluminium Alloy			
		Charging time	6-7hc	ours (with enough strong shine)		
		Lighting time	10-12 hoւ	ırs per day,sustain 3-5 rainy days		
		Working mode	Р	IR sensor and light control		
		Catificates		CE、ROHS、TUV、IP65		
		Warranty		3 years		
			Product size	1136*420*45mm		
			N.W.	16.7KGS		
		Packing	Package size	1190*490*220mm		
			G.W.	19.2KGS		
			Q'ty/ctn:	1set/ctn		
		Container	20GP	230PCS		
		Container	40HQ	530PCS		
			Bulk price:	SR 1299.99		

Model:	SE-CH100		Specif	ications				
100W A1	l in one solar street	11, ,	Max power	18V 110W (Monocrystalline silicon)				
		Solar panel	Life span	25 years				
		D-++	Туре	LiFe PO4 12.8V 48AH				
	(Contemporary)	Battery	Life span	5-8 years				
			Power	12V 100W				
		LED Source	Chips brand	PHILIPS high efficiency 3030 led chips (120PCS)				
	-		lumens	150-1601m/W				
	41 .		Life span	50000 Hours				
		Installation	Mounting heigh	t: 9-10M, Mounting distance: 30-35M				
		Installation	Pole upper Dia	mter: ∮76-∮105mm				
	6	Lamp body material	al Aluminium Alloy					
	0 1	Charging time	6-7hours (with enough strong shine)					
	CHANCE	Lighting time	10-12 hours pe	10-12 hours per day, sustain 3-5 rainy days				
		Working mode	PIR sensor and	light control				
		Catificates	CE、ROHS、TUV、	IP65				
		Warranty	3 years					
			Product size	1136*420*45mm				
			N. W.	17.2KGS				
		Packing	Package size	1190*490*220mm				
			G. W.	19.8KGS				
			Q'ty/ctn:	1set/ctn				
		0	20GP	230PCS				
		Container	40HQ	Q 530PCS				
		Bulk price: SR 149	Bulk price: SR 1499.99					



Modern air conditioning & solar energy systems.

Our main activity is the production and manufacture of heating products. We produce & manufacture heating & hot water systems with pellet, wood, biomass, electric and solar energy.

Our Products: Oil boilers, wood boilers, pellet boilers, biomass boilers, pellet stoves, pellet burners, biomass burners and solar water heaters, ash filters, water and oil tanks, hybrid solar boilers and electric boilers.

Our services: We cover all the needs of a home or business or hotel for heating and hot water as our products have all the certificates for high efficiency, economy and low pollutants.

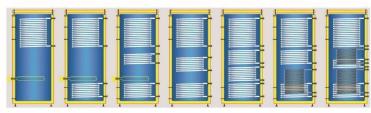
Dramatic changes in the form of fuel due to the rise in oil, gas, electricity and greenhouse gas prices make it imperative to adapt consumers to new, environmentally friendly heating systems fuels such as biomass (wood and pellets) from recyclable materials in the country, at lower cost in operation and without the risk of dramatic changes in











The new series of **Boiler - Buffer - Water Heater Hofamat 2018** is a global innovative product designed and constructed by the experienced personnel of Mytherm. Multiple types in a wide range of capacities are available (**from 300 lit to 5.000 lit or even larger**) in order to fully cover your needs for heating, energy storage and domestic hot water at the same time.

It is the perfect solution for housing or business premises heating. It provides plenty of domestic hot water taking advantage of the solar energy, the hot water of the boiler, the electric energy, the heat pump or the geothermal energy. It operates under atmospheric pressure conditions thus confirms its

long lasting durability. Inside the boiler there are flexible stainless steel heat exchangers for the production of thermal energy, single phase or three phase electrical resistances (between 4kw to 24kw), sockets for sensors or thermometer placement and hydraulic filling and drainage.

The tank is constructed of a special plastic material. Two containers placed one within the other. Thermal insulation of polyurethane is placed between them. Polyurethane has low thermal conductivity and a thin layer of it (50-100mm) covers the insulation requirements. An insulated cap at the top of the Boiler - Buffer - Water Heater seals the container from the outside conditions while provides access inside in order to control the water's level. This also permits future interventions such as placement of additional exchangers or resistances or the possibility of an extension.

Adjustable supports at the lower part of the **Boiler - Buffer - Water Heater** help the correct placing of it. It is also equipped with a manual system of tube cleaning. It has the ability to regulate water's properties by the use of special additives in order to enhance the system's performance (i.e. additives for clarity, anti - freezers, salts neutralization etc.) It is the only boiler that can be easily placed in narrow spaces since it can be constructed in rectangular narrow shape (1.250 & 1.500 lit).

What makes it unique:

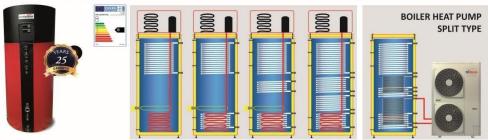
- No need for service (cleaning) from sludge or salts
- Innovative eco design
- Compatible with the common boilers (Easy replacement)
- Easy access inside
- Rectangular construction
- Anodic protection

		ENERGY S	TORAGE TA	NKS (solar	- boiler - he	eat pums -	resistance) TYPE B	L		
Type Lit.	Dimensions D/W x H x L mm	Weight of boiler kg	Exchanger Solar m²	Exchanger Heat pump m²	Exchanger Boiler m²	Exchanger Heating m²	Exchanger DHW m²	BL II 2 D.H.W. exchanger	BL III 3 D.H.W. exchanger	BL IV 4 D.H.W. exchanger	BL IV 5 D.H.W. exchanger
300	700 x 1.350	65 - 77	1,40	1,45	1,10	1,10	2,60	880,06	979,22	1124,09	1227,98
600	750 x 1.750	83 -102	1,60	1,65	1,20	1,20	4,40	1063,54	1168,88	1332,47	1443,91
800	905 x 2.100	107 -130	1,90	2,00	1,50	1,50	6,50	1333,04	1450,37	1679,60	1807,93
1.000	1.050 x 2.100	124 -152	2,40	2,50	1,80	1,80	7,50	1670,88	1824,06	2070,01	2289,07
1.250*	820 x 1.950 x 1.120	180 - 232	4,50	4,60	2,50	2,50	11,00	2773,67	3037,82	3514,96	3851,31
1.500	1.050 x 2.400	168 - 215	4,70	4,80	2,20	2,20	12,00	2767,00	3036,46	3553,93	3873,03
1.500*	820 x 2.350 x 1.120	233 - 308	5,10	5,20	2,80	2,80	12,60	3458,75	3795,57	4442,41	4841,28
2.000	1.150 x 2.200	208 - 266	5,60	5,80	3,50	3,50	13,00	3529,85	3884,77	4505,40	4953,75
3.000	1.300 x 2.600	245 - 311	5,60	5,80	3,50	3,50	16,00	4909,05	5290,79	6084,06	6508,67
5.000	1.650 x 2.700	315 - 400	5,80	6,20	4,80	4,80	19,00	7238,54	7934,41	9051,50	9742,79
Resistance	e 4 kw 220 V				58,	,00					
Resistance 9-24 kw 380 V 340,00											

^{*} Rectangular model







The new series of **Boiler - Buffer - Water Heater Hofamat 2018** is a global innovative product designed and constructed by the experienced personnel of Mytherm. Multiple types in a wide range of capacities are available (**from 300 lit to 5.000 lit or even larger**) in order to fully cover your needs for heating, energy storage and domestic hot water at the same time. It is the perfect solution for housing or business premises heating. It provides plenty of domestic hot water taking advantage of the solar energy, the hot water of the boiler, the electric energy, the heat pump or the geothermal energy. It operates under atmospheric pressure conditions thus confirms its long lasting durability. Inside the boiler there are flexible stainless steel heat exchangers for the production of thermal energy, single phase or three phase electrical resistances (**between 4kw to 24kw**), sockets for sensors or thermometer placement and hydraulic filling and drainage.

The tank is constructed of a special plastic material. Two containers placed one within the other. Thermal insulation of polyurethane is placed between them. Polyurethane has low thermal conductivity and a thin layer of it (50-100mm) covers the insulation requirements. An insulated cap at the top of the Boiler - Buffer - Water Heater seals the container from the outside conditions while provides access inside in order to control the water's level. This also permits future interventions such as placement of additional exchangers or resistances or the possibility of an extension.

Adjustable supports at the lower part of the **Boiler - Buffer - Water Heater** help the correct placing of it. It is also equipped with a manual system of tube cleaning. It has the ability to regulate water's properties by the use of special additives in order to enhance the system's performance (i.e. additives for clarity, anti - freezers, salts neutralization etc.) It is the only boiler that can be easily placed in narrow spaces since it can be constructed in rectangular narrow shape (1.250 & 1.500 lit). In this series, Mytherm has developed a new product "Boiler - Hofamat Heat Pump" in order to provide an additional solution where there is need for domestic hot water. It is suitable for houses and small hotels. As about the construction of it, an exchanger of domestic hot water production is integrated in the hofamat boiler. The main source of hot water production is a heat pump which recovers the hot ambient air and by the use of a copper made exchanger heats the water which is inside the boiler. Having a COP factor of up to 4.0, provides domestic hot water at a very low cost. At the same time it is achieved an up to 70% reduction in energy consumption compared to the use of electrical resistances.

Available at 300 and 600 lit capacity with a pump of 1.3 kW absorbed power (compressor freon R134 a) and a bigger than 5kW power output. It is also possible the production for the needs of higher consumptions since the hofamat boiler can operate with bigger pumps (air-water) or chiller. The boiler takes the energy that is discharged to the atmosphere and gives it back to the boiler in order to produce free domestic hot water. The Boiler – Hofamat BH has an electronic control panel for a safe, economic and trouble free operation. This can also control the temperature of the produced domestic hot water.

It produces domestic hot water above 70 o C. The ON time production of domestic hot water is 200 lit /h with Δ T 25o C and at the same time inside the boiler it is stored an additional amount of energy 350lit (type BH 300) and 700lit (type BH 600).

If even a larger amount of domestic hot water is needed for short periods of time -during peak hours- an electrical resistance 4-9 kW can be installed in order to add 130-300lit/h of domestic hot water. Additional exchangers, electrical resistances or connections with heating systems (solar as well) are available and compatible too.

What makes it unique:

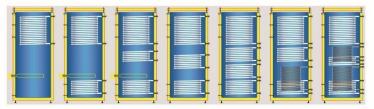
- No need for service (cleaning) from sludge or salts
- Innovative eco design
- Compatible with the common boilers (Easy replacement)
- Easy access inside
- Rectangular construction
- Anodic protection

	ENERGY STORAGE TANKS (solar - boiler - heat pums - resistance) TYPE BH											
Type Lit.	Dimensions D/W x H x L mm	Weight of boiler kg	Power Heat pump kw	Exchanger Solar m ²	Exchanger Heat pump m ²		Exchanger Heating m²	Exchanger DHW m²	BH II 2 D.H.W. exchanger	BH III 3 D.H.W. exchanger	BH IV 4 D.H.W. exchanger	BH IV 5 D.H.W. exchanger
300	700 x 1.350	65 - 77	1,30	1,40	1,45	1,10	1,10	2,60	2185,80	2351,96	2511,67	2670,18
600	750 x 1.750	83 -102	1,30	1,60	1,65	1,20	1,20	4,40	2369,39	2544,18	2714,87	2888,04
Resista	Resistance 4 kw 220 V 58,00 Resistance 9- 24 kw 380 V 340,00											









The new series of **Boiler - Buffer - Water Heater Hofamat 2018** is a global innovative product designed and constructed by the experienced personnel of Mytherm. Multiple types in a wide range of capacities are available (**from 300 lit to 5.000 lit or even larger**) in order to fully cover your needs for heating, energy storage and domestic hot water at the same time.

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long lasting durability. Inside the boiler there are flexible stainless steel heat exchangers for the production of thermal energy, single phase or three phase electrical resistances (between 4kw to 24kw), sockets for sensors or thermometer placement and hydraulic filling and drainage.

The tank is constructed of a special plastic material. Two containers placed one within the other. Thermal insulation of polyurethane is placed between them. Polyurethane has low thermal conductivity and a thin layer of it (50-100mm) covers the insulation requirements. An insulated cap at the top of the Boiler - Buffer - Water Heater seals the container from the outside conditions while provides access inside in order to control the water's level. This also permits future interventions such as placement of additional exchangers or resistances or the possibility of an extension.

Adjustable supports at the lower part of the **Boiler - Buffer - Water Heater** help the correct placing of it. It is also equipped with a manual system of tube cleaning. It has the ability to regulate water's properties by the use of special additives in order to enhance the system's performance (i.e. additives for clarity, anti - freezers, salts neutralization etc.) It is the only boiler that can be easily placed in narrow spaces since it can be constructed in rectangular narrow shape (1.250 & 1.500 lift).

What makes it unique:

- No need for service (cleaning) from sludge or salts
- Innovative eco design
- Compatible with the common boilers (Easy replacement)
- Easy access inside
- Rectangular construction
- Anodic protection

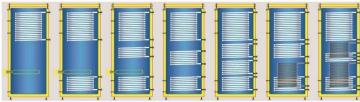
				BUFF	ER - TYPE	BF					
Type Lit.	Dimensions D/W x H x L mm	Weight of boiler kg	Exchanger Solar m²	Exchanger Heat pump m ²	Exchanger Boiler m²	Exchanger Heating m ²	Exchanger DHW m ²	BF II 2 exchanger	BF III 3 exchanger	BF IV 3 D.H.W. exchanger	BF IV 4 D.H.W. exchanger
300	700 x 1.350	65 - 77	1,40	1,45	1,10	1,10	2,60	787,95	887,12	969,67	1063,44
600	750 x 1.750	83 -102	1,60	1,65	1,20	1,20	4,40	927,60	1032,94	1160,35	1225,16
800	905 x 2.100	107 -130	1,90	2,00	1,50	1,50	6,50	1136,46	1253,79	1443,22	1562,92
1.000	1.050 x 2.100	124 -152	2,40	2,50	1,80	1,80	7,50	1410,45	1555,07	1814,38	1973,37
1.250*	820 x 1.950 x 1.120	180 - 232	4,50	4,60	2,50	2,50	11,00	2398,29	2691,21	3021,84	3343,66
1.500	1.050 x 2.400	168 - 215	4,70	4,80	2,20	2,20	12,00	2426,81	2750,87	3020,56	3376,49
1.500*	820 x 2.350 x 1.120	233 - 308	5,10	5,20	2,80	2,80	12,60	3033,51	3438,58	3775,70	4220,61
2.000	1.150 x 2.200	208 - 266	5,60	5,80	3,50	3,50	13,00	3069,05	3506,12	3868,99	4352,87
3.000	1.300 x 2.600	245 - 311	5,60	5,80	3,50	3,50	16,00	4100,12	4551,53	5298,19	5814,92
5.000	1.650 x 2.700	315 - 400	5,80	6,20	4,80	4,80	19,00	6023,71	6627,50	7877,83	8583,48
Resistance	e 4 kw 220 V				58,	,00					
Resistance 9- 24 kw 380 V 340,00											

^{*} Rectangular model









The new series of **Boiler - Buffer - Water Heater Hofamat 2018** is a global innovative product designed and constructed by the experienced personnel of Mytherm. Multiple types in a wide range of capacities are available (**from 300 lit to 5.000 lit or even larger**) in order to fully cover your needs for heating, energy storage and domestic hot water at the same time.

It is the perfect solution for housing or business premises heating. It provides plenty of domestic hot water taking advantage of the solar energy, the hot water of the boiler, the electric energy, the heat pump or the geothermal energy. It operates under atmospheric pressure conditions thus confirms its

long lasting durability. Inside the boiler there are flexible stainless steel heat exchangers for the production of thermal energy, single phase or three phase electrical resistances (between 4kw to 24kw), sockets for sensors or thermometer placement and hydraulic filling and drainage.

The tank is constructed of a special plastic material. Two containers placed one within the other. Thermal insulation of polyurethane is placed between them. Polyurethane has low thermal conductivity and a thin layer of it (50-100mm) covers the insulation requirements. An insulated cap at the top of the Boiler - Buffer - Water Heater seals the container from the outside conditions while provides access inside in order to control the water's level. This also permits future interventions such as placement of additional exchangers or resistances or the possibility of an extension.

Adjustable supports at the lower part of the **Boiler - Buffer - Water Heater** help the correct placing of it. It is also equipped with a manual system of tube cleaning. It has the ability to regulate water's properties by the use of special additives in order to enhance the system's performance (i.e. additives for clarity, anti - freezers, salts neutralization etc.) It is the only boiler that can be easily placed in narrow spaces since it can be constructed in rectangular narrow shape (1.250 & 1.500 lift).

What makes it unique:

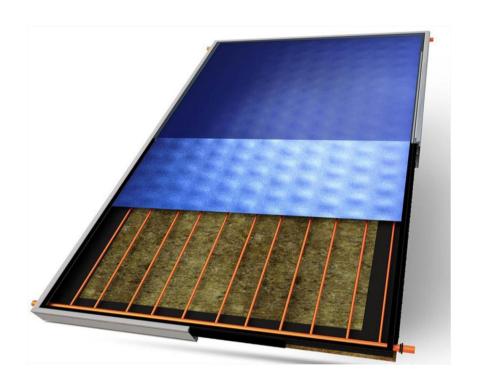
- No need for service (cleaning) from sludge or salts
- Innovative eco design
- Compatible with the common boilers (Easy replacement)
- Easy access inside
- Rectangular construction
- Anodic protection

WATER HEATERS (resistance) TYPE BW									
Type Lit.	Dimensions D/W x H x L mm	Weight of boiler kg	Exchanger Solar m²	Exchanger Heat pump m²	Exchanger Boiler m²	Exchanger Heating m ²	Exchanger DHW m ²	BW 220 V D.H.W. exchanger	BW 380 V D.H.W. exchanger
300	700 x 1.350	65 - 77		16			2,60	816,99	1062,69
600	750 x 1.750	83 -102				-	4,40	992,24	1237,94
800	905 x 2.100	107 -130	- 1	-	-	-	6,50	1247,41	1498,96
1.000	1.050 x 2.100	124 -152	•			-	7,50	1542,24	1797,39
1.250*	820 x 1.950 x 1.120	180 - 232	Œ.		-	3 .	11,00	(*)	2886,52
1.500	1.050 x 2.400	168 - 215		57	-	-	12,00	*	2821,05
1.500*	820 x 2.350 x 1.120	233 - 308) .		-	12,60		3526,31
2.000	1.150 x 2.200	208 - 266				-	13,00		3421,12
3.000	1.300 x 2.600	245 - 311	5.00	1. = 1		(=)3	16,00		4873,00
5.000	1.650 x 2.700	315 - 400				: - (19,00		7180,66
Resistance	4 kw 220 V				58	,00			
Resistance 9- 24 kw 380 V 340,00									

^{*} Rectangular model

enjoy our technology

Price catalogue



	Solar collector											
Dimension		TYPE	CLASS	Price (€)								
1.00m *1.50m	SELECTIVE	SELECTIVE	SECURITY	198,00								
1.00m *2.00m	SELECTIVE	SELECTIVE	SECURITY	236,00								
1.25m *2.00m	SELECTIVE	SELECTIVE	SECURITY	296,00								
SUPPORT FOR FLAT	ΓROOF	GALVANIZED		78								
SUPPORT FOR TILE	ROOF	GALVANIZED		112								

