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гр. Съединение 4190, обл. Пловдив, Индустриална Зона

Оферта с включен монтаж

Монофазна соларна система SOLAX 5 kW с 3 kWh батерия

/Монофазен хибриден инвертор 7,5kW, Фотоволтаични панели 5kW, Батерия 3 kWh/

ОБЕКТ: Соларна система, жилищна сграда, покрив					
№	описание на материалните средства, строително-монтажни работи	мярка	колич.	ед. цена в ЛВ С ДДС	Общо ЛВ С ДДС
1	Фотоволтаични панели 545W JA SOLAR	брой	9	429	3861
2	Соларен инвертор SOLAX X1-7.5 G4 монофазен с монтаж	брой	1	4464	4464
3	SOLAX ограничител на изходящата енергия монофазен	брой	1	469	469
4	Алуминиева конструкция за покрив за 9 броя панели	брой	1	1269	1269
5	Соларен кабел, MC4 конектори, табла за защита	брой	1	1856	1856
6	Акумулаторна Батерия Solax Triple Power T-BAT H3.0- 3kW с BMS и монтаж	брой	1	6318	6318
7	Монтаж на конструкция и фотоволтаични панели Окабеляване на фотоволтаичната система Монтаж на табла защита Настройка и пускане в експлоатация	включени	1	3170	3170
				ОБЩО ЛВ С ДДС	21 407 ЛВ
Дата: 01.06.2023					

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Технически характеристики на включените компоненти в системата

Фотоволтаични модули

- Ефективност на модула 21,1% \geq 20%
- Продуктова гаранция 12 години \geq 12 години
- Деградация първа година \leq 1% \leq 2%
- Линейна деградация за:
 - еднолицеви модули \leq 0,5% на година \leq 0,6% на година,

Инвертор

- Ефективност на инвертора (European weighted efficiency) 97% \geq 96%
- Смущения от хармоници THD \leq 3% \leq 3%
- Продуктова гаранция 10 години \geq 10 години
- Наличие на устройство, което ограничава връщане на електроенергия в мрежата съвместимо с инвертора или вградена такава функция на самият инвертор- Solax integrated Smart Meter

Системи за съхранение

- Работна температура от -30°C до +50°C \geq 45°C на околната среда
- Продуктова гаранция 10 години \geq 5 години

Конструкция

- Материалите и крепежните елементи, използвани в конструкцията за монтаж на модулите са алуминий и неръждаема стомана, които са нискокорозионни материали и не повишават степента на корозия, когато са монтирани заедно в масив или когато са монтирани върху повърхността на основна конструкция
- Продуктова гаранция 10 години \geq 10 години

Harvest the Sunshine

DEEP BLUE 3.0

Mono

550W MBB Half-cell Module
JAM72S30 525-550/MR Series

Introduction

Assembled with 11BB PERC cells, the half-cell configuration of the modules offers the advantages of higher power output, better temperature-dependent performance, reduced shading effect on the energy generation, lower risk of hot spot, as well as enhanced tolerance for mechanical loading.



Higher output power



Lower LCOE



Less shading and lower resistive loss

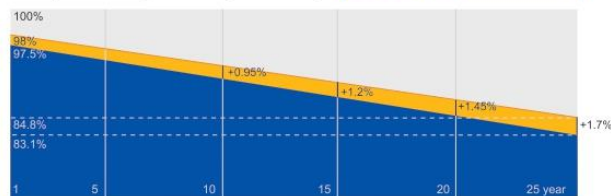


Better mechanical loading tolerance

Superior Warranty

- 12-year product warranty
- 25-year linear power output warranty

0.55% Annual Degradation
Over 25 years



■ New linear power warranty ■ Standard module linear power warranty

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 management systems
- IEC TS 62941: 2016 Terrestrial photovoltaic (PV) modules – Guidelines for increased confidence in PV module design qualification and type approval



JASOLAR

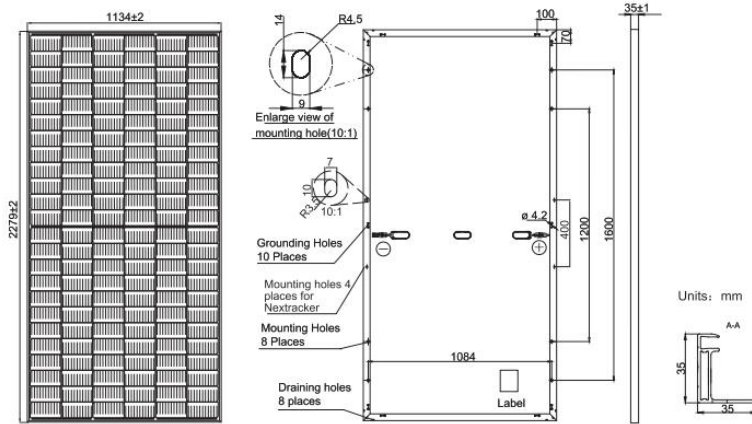
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Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.



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MECHANICAL DIAGRAMS



Remark: customized frame color and cable length available upon request

SPECIFICATIONS

Cell	Mono
Weight	28.6kg±3%
Dimensions	2279±2mm×1134±2mm×35±1mm
Cable Cross Section Size	4mm ² (IEC) , 12 AWG(UL)
No. of cells	144(6×24)
Junction Box	IP68, 3 diodes
Connector	QC 4.10(1000V) QC 4.10-35(1500V)
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); Landscape: 1300mm(+)/1300mm(-)
Packaging Configuration	31pcs/Pallet, 620pcs/40ft Container

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72S30 -525/MR	JAM72S30 -530/MR	JAM72S30 -535/MR	JAM72S30 -540/MR	JAM72S30 -545/MR	JAM72S30 -550/MR
Rated Maximum Power(Pmax) [W]	525	530	535	540	545	550
Open Circuit Voltage(Voc) [V]	49.15	49.30	49.45	49.60	49.75	49.90
Maximum Power Voltage(Vmp) [V]	41.15	41.31	41.47	41.64	41.80	41.96
Short Circuit Current(Isc) [A]	13.65	13.72	13.79	13.86	13.93	14.00
Maximum Power Current(Imp) [A]	12.76	12.83	12.90	12.97	13.04	13.11
Module Efficiency [%]	20.3	20.5	20.7	20.9	21.1	21.3
Power Tolerance	0~+5W					
Temperature Coefficient of Isc(α _{Isc})	+0.045%/°C					
Temperature Coefficient of Voc(β _{Voc})	-0.275%/°C					
Temperature Coefficient of Pmax(γ _{Pmp})	-0.350%/°C					
STC	Irradiance 1000W/m ² , cell temperature 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.

ELECTRICAL PARAMETERS AT NOCT

TYPE	JAM72S30 -525/MR	JAM72S30 -530/MR	JAM72S30 -535/MR	JAM72S30 -540/MR	JAM72S30 -545/MR	JAM72S30 -550/MR
Rated Max Power(Pmax) [W]	397	401	405	408	412	416
Open Circuit Voltage(Voc) [V]	46.05	46.18	46.31	46.43	46.55	46.68
Max Power Voltage(Vmp) [V]	38.36	38.57	38.78	38.99	39.20	39.43
Short Circuit Current(Isc) [A]	10.97	11.01	11.05	11.09	11.13	11.17
Max Power Current(Imp) [A]	10.35	10.39	10.43	10.47	10.51	10.55
NOCT	Irradiance 800W/m ² , ambient temperature 20°C, wind speed 1m/s, AM1.5G					

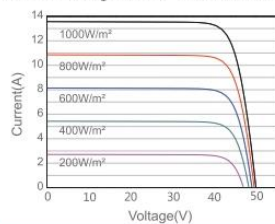
*For NexTracker installations, Maximum Static Load, Front is 2400Pa while Maximum Static Load, Back is 2400Pa.

OPERATING CONDITIONS

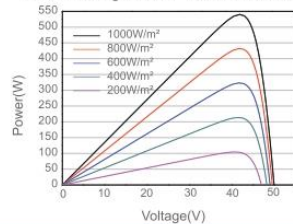
Maximum System Voltage	1000V/1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	25A
Maximum Static Load,Front*	5400Pa(112lb/ft ²)
Maximum Static Load,Back*	2400Pa(50lb/ft ²)
NOCT	45±2°C
Safety Class	Class II
Fire Performance	UL Type 1

CHARACTERISTICS

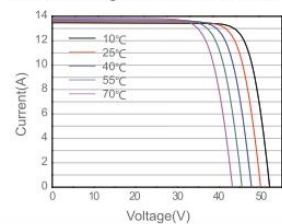
Current-Voltage Curve JAM72S30-540/MR



Power-Voltage Curve JAM72S30-540/MR

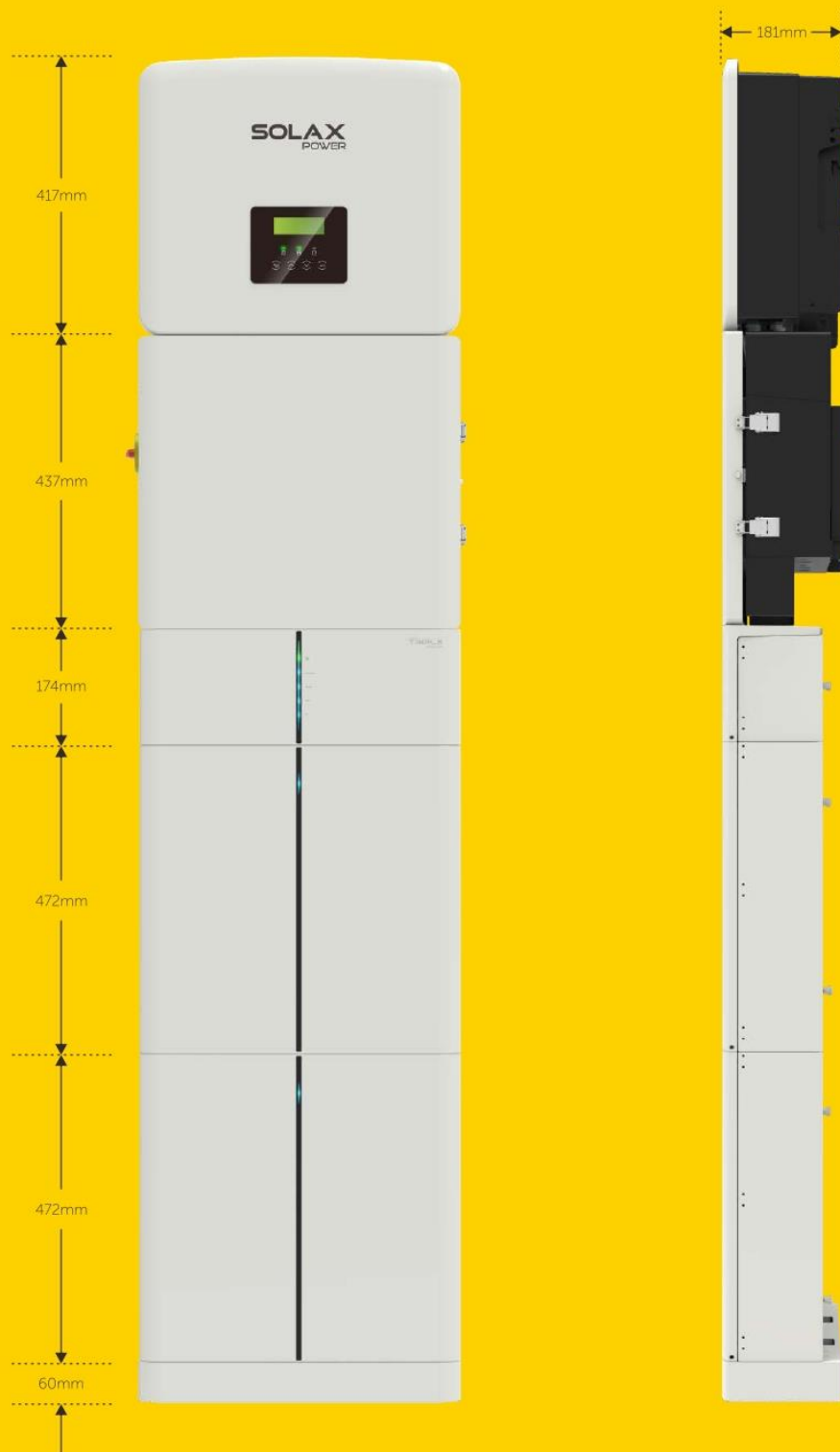


Current-Voltage Curve JAM72S30-540/MR



Premium Cells, Premium Modules

Version No. : Global_EN_20201207A



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X1-Hybrid G4

X1-Hybrid-3.0 X1-Hybrid-3.7 X1-Hybrid-5.0 X1-Hybrid-6.0 X1-Hybrid-7.5

	X1-Hybrid-3.0	X1-Hybrid-3.7	X1-Hybrid-5.0	X1-Hybrid-6.0	X1-Hybrid-7.5
INPUT (DC)					
Max.PV array power [Wp]	4500	5500	7500	9000	10000
Max.DC voltage [V]			600		
Nominal DC operating voltage [V]			360		
Max. input current (input A/input B) [A]			14/14		
Max. short circuit current (input A/input B) [A]			16/16		
MPPT voltage range[V]			70-550		
Start operating voltage[V]			90		
No. of MPP trackers/Strings per MPPT tracker			2/1		
INPUT AC					
Max. apparent AC power[VA]	6300	7360	9200	9200	9200
Max. AC current[A]	27.4	32	40	40	40
Nominal grid voltage(AC voltage range)[V]			220/230/240(180-270)		
Nominal grid Frequency/range[Hz]			50/60		
OUTPUT AC					
Nominal AC power [VA]	3000	3680	5000	6000	7500
Max. apparent AC power [VA]	3300	3680	5500(4600for DE 4999for AU)	6600	7500
Nominal grid voltage(AC voltage range) [V]			220/230/240(180-270)		
Nominal grid frequency/range [Hz]			50/60		
Max. AC current [A]	14.4	16	23.9(20 for DE/21.7 for AU)	28.6	32.6
Displacement power factor			0.8 leading...0.8 lagging		
THDi, rated power [%]			<2		
OUTPUT DC (BATTERY)					
Battery type			Li-ion / lead-acid		
Battery voltage range [V]			80-480		
Max.continuous charge/discharge current [A]			30		
Communication interfaces			CAN/RS485		
Reverse connect protection			Yes		
EPS OUTPUT (WITH BATTERY)					
EPS MAX. continuous apparent power [VA]	3000	3680	5000	6000	7500
EPS rated voltage[V],Frequency [Hz]			230, 50/60		
EPS MAX.continuous current [A]	13	16	21.7	26.1	32.6
EPS peak apparent power (rated)[%], Duration[s]			120% overload , 600		100%
Switching time [ms]			internal switch <10, external switch <100		
THDv, linear Load [%]			<2		
EFFICIENCY					
MPPT efficiency [%]			99.9		
Euro efficiency [%]			97.0		
Max. efficiency [%]			97.6		
Battery charge/discharge efficiency [%]			97.0/97.0		
POWER CONSUMPTION					
Standby consumption (Night) [W]			<3		
STANDARD					
Safety			IEC62109-1 / IEC62109-2		
EMC			EN 61000-6-1:2007/EN 61000-6-2:2005/EN 61000-6-3/EN 61000-6-4/EN61000-3-2/EN61000-3-3/EN61000-3-11/EN61000-3-12		
Certification			VDE 0126-1-1 A1:2012 / VDE4105:2018 /G99 /G98 / AS4777 / EN50549/ CEI 0-21 /RD661/RD1699/JUNE206007-1/VDE0216/VFR2019		
ENVIRONMENT LIMIT					
Degree of protection(according to IEC60529)			IP65		
Operating temperature range [°C]			-35..... +60°C (derating at +45°C)		
Max. operation altitude [m]			<3000		
Humidity [%]			0~100 (no condensing)		
Storage temperature [°C]			-40..... +70°C		
Typical noise emission [dB]			<30		
DIMENSION AND WEIGHT					
Dimensions(WxHxD) [mm]			482*417*181		
Weight[kg]			22		23
Cooling concept			Natural cooling		Forced airflow
Topology			Non-isolated		
Communication interfaces			CT/Meter/External control RS485/Indoor LCD/Pocket Series(optional)/DRM/USB Upgrade		
LCD display			Yes		
Standard warranty [years]			10		

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Triple Power 3.0 Battery

- Safest LiFePO₄ battery (30 Ah)
- Working temperature range: -30~50°C
- Smart temperature balancing
- Cycle life>6000 times
- IP67 protection level
- Less self consumption
- Quick installation
- No toxic heavy metals or caustic materials



	T-BAT H 3.0	T-BAT H 6.0*	T-BAT H 9.0*	T-BAT H 12.0*
Nominal Voltage [V]	102.4	204.8	307.2	409.6
Operating voltage range [V]	90-116	180-232	270-348	360-464
Total energy [kWh]	3.1	6.1	9.2	12.3
Usable energy [kwh]	3.1	6.1	9.2	12.3
Rated Capacity [Ah]			30	
Standard power [kW]	2.55	5.1	7.65	10.2
Max power [kW]	3.1	6.1	10.2	12.3
Recommend charge/discharge current [A]			25	
Maxcharge/discharge current [A]			30	
Faradic charge efficiency			99%	
Battery roundtrip efficiency			95%	
Cycle life [90% DOD]			6000 Cycles	
Expected life time / Warranty [year]			10	
Available charge/discharge temperature range [°C]			-30 to 50	
Storage temperature [°C]		-20 to 55 (3 months)	0 to 40 (1 year)	
Humidity [%]			0~100	
Altitude [m]			Below 4000	
Protection			IP67	
System to Inverter			RS485/CAN2.0	
Battery to battery/BMS			CAN2.0	
Master LED indicator			4LED (25%, 50%, 75%, 100%), 1LED (working mode)	
System Switch (on/off)			Button*1+Breaker*1	
Safety Certificate			CE/TUV Mark/IEC62619/IEC62040/IEC60529	
EMC			61000-6-1/2/3, 61000-3-2/3	
UN number			UN3840	
Hazardous materials classification			Class 9	
Transport testing requirement			UN38.3	
Dimensions(LxWxH) [mm]	MC0600: 482*174*148 HV10230: 482*472*148	MC0600: 482*174*148 HV10230: 482*472*148	MC0600: 482*174*148 HV10230: 482*472*148	MC0600: 482*174*148 HV10230: 482*472*148
Weight [kg]	MC0600: 7.5kg +HV10230: 33kg	MC0600: 7.5kg +2*HV10230: 66kg	MC0600: 7.5kg +3*HV10230: 99kg	MC0600: 7.5kg +4*HV10230: 132kg

* MC0600:Battery BMS (one MC0600 can be connected 1~4 HV10230)

* HV10230:Battery Pack

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