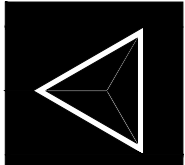

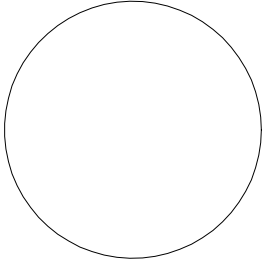


NÁZOV PROJEKTU	KULTÚRNE STREDISKO A KNIŽNICA ŽARNOVICKÁ - RAČA						
MIESTO STAVBY	Žarnovická 9582/7, 831 06 Bratislava hlavný stavebný objekt parcela č. : 513/19 inžinierske siete parcely č. 513/5, 513/20, 513/21						
STAVEBNÍK	Mestská časť Bratislava - Rača Kubačova 21, 831 06 Bratislava - mestská časť Rača						
GENERÁLNY PROJEKTANT	young.s architekti s.r.o. Béžová 3960/8 851 07 Bratislava - Petržalka						YOUNG.s architekti
AUTORI PROJEKTU	Ing. arch. Jozef Bátor, PhD. Ing. arch. Tomáš Medlen Ing. arch. Michaela Perejdová						
SPRACOVATEĽ PROFESIE	EXTELI-PROJEKT, s.r.o. Račianska 78 83102 Bratislava						
ZODPOVEDNÝ PROJEKTANT	Ing. Ján Kišľa						
KONTROLOVAL	Ing. Marek Gešnábel						
VYPRACOVAL	Bc. Illia Lazarenko						
STAVEBNÝ OBJEKT	PS01					MIERKA	1 : -
ETAPA	I. ETAPA					FORMÁT	1 x A4
ČASŤ PD	PS01 - ELEKTROINŠTALÁCIE-FVE					ROZMER	210 x 297
OBSAH VÝKRESU	PANEL					DÁTUM	06/2025
ČÍSLO PROJEKTU	KÓD PROJEKTU	STUPEŇ PD	KÓD PROFESIE	STAVEBNÝ OBJEKT	ČÍSLO VÝKRESU	REVÍZIA	PARÉ
044	KCR	RP	E-1.1.6	PS01	003	00	

Harvest the Sunshine

DEEP BLUE 3.0

Mono

550W MBB Half-cell Module
JAM72S30 525-550/MR/1500V 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

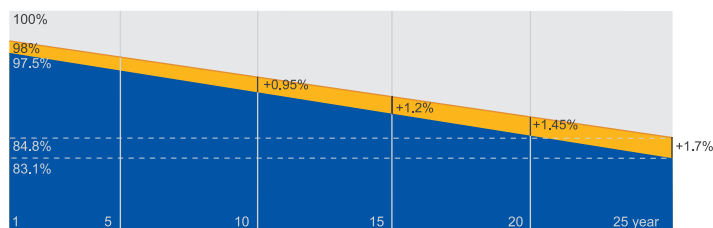


Better mechanical loading tolerance

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
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems



JA SOLAR

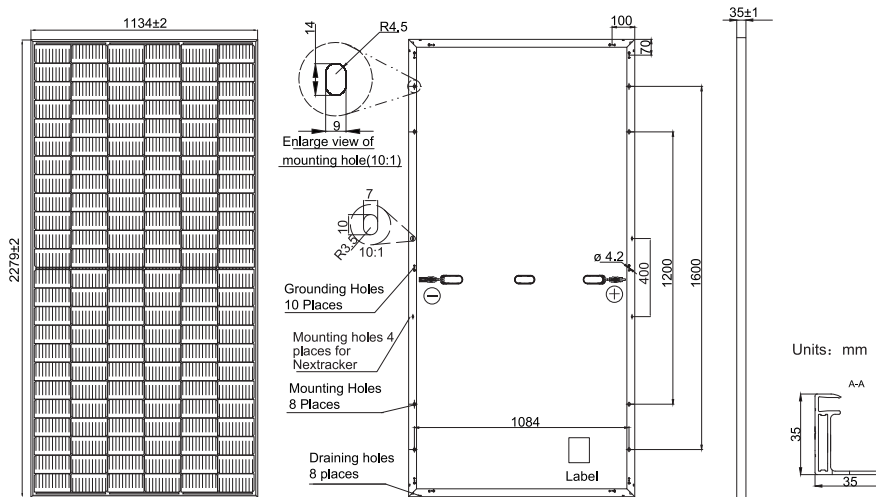
www.jasolar.com

Specifications subject to technical changes and tests.
JA Solar reserves the right of final interpretation.
Shanghai JA Solar Technology Co., Ltd.



MECHANICAL DIAGRAMS

SPECIFICATIONS



Remark: customized frame color and cable length available upon request

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	Genuine MC4-EVO2 QC 4.10-35/45
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-); Landscape: 1300mm(+)/1300mm(-)
Country of Manufacturer	China/Vietnam

ELECTRICAL PARAMETERS AT STC

TYPE	JAM72S30 -525/MR/1500V	JAM72S30 -530/MR/1500V	JAM72S30 -535/MR/1500V	JAM72S30 -540/MR/1500V	JAM72S30 -545/MR/1500V	JAM72S30 -550/MR/1500V
Rated Maximum Power(P _{max}) [W]	525	530	535	540	545	550
Open Circuit Voltage(V _{oc}) [V]	49.15	49.30	49.45	49.60	49.75	49.90
Maximum Power Voltage(V _{mp}) [V]	41.15	41.31	41.47	41.64	41.80	41.96
Short Circuit Current(I _{sc}) [A]	13.65	13.72	13.79	13.86	13.93	14.00
Maximum Power Current(I _{mp}) [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 I _{sc} (α _{Isc})	+0.045%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.275%/°C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.350%/°C					

STC

Irradiance 1000W/m², 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.
Measurement tolerance at STC: P_{max} ±3 %, V_{oc} ±3% and I_{sc} ±4%.

ELECTRICAL PARAMETERS AT NOCT

TYPE	JAM72S30-525 /MR/1500V	JAM72S30-530 /MR/1500V	JAM72S30-535 /MR/1500V	JAM72S30-540 /MR/1500V	JAM72S30-545 /MR/1500V	JAM72S30-550 /MR/1500V
Rated Max Power(P _{max}) [W]	397	401	405	408	412	416
Open Circuit Voltage(V _{oc}) [V]	46.05	46.18	46.31	46.43	46.55	46.68
Max Power Voltage(V _{mp}) [V]	38.36	38.57	38.78	38.99	39.20	39.43
Short Circuit Current(I _{sc}) [A]	10.97	11.01	11.05	11.09	11.13	11.17
Max Power Current(I _{mp}) [A]	10.35	10.39	10.43	10.47	10.51	10.55

NOCT

Irradiance 800W/m², ambient temperature 20°C, wind speed 1m/s, AM1.5G

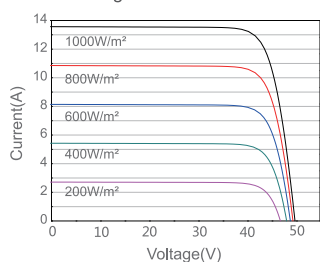
*For NexTracker installations, Maximum Static Load, Front is 2000Pa while Maximum Static Load, Back is 2000Pa.

OPERATING CONDITIONS

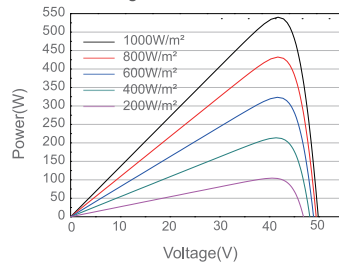
Maximum System Voltage	1500V DC (IEC)
Operating Temperature	-40 °C ~+85 °C
Maximum Series Fuse Rating	25A
Maximum Static Load, Front*	3600Pa, 1.5
Maximum Static Load, Back*	1600Pa, 1.5
NOCT	45±2 °C
Safety Class	Class II
Fire Performance	UL Type 1

CHARACTERISTICS

Current-Voltage Curve JAM72S30-540/MR/1500V



Power-Voltage Curve JAM72S30-540/MR/1500V



Current-Voltage Curve JAM72S30-540/MR/1500V

