

ist Hersteller und verantwortlich für:

Konformitätserklärung / Declaration of Conformity

Produkt-Typ:	Plug & Play Photovoltaik-Set für Netzparallelbetrieb steckbar mittels Haushaltsstecker in Endstromkreis
Modell:	450 - 480 Wp Plug & Play (CN), 1 Panels / Solarflow 800
Komponenten:	• 1x JA Solar JAM54D41-450/LB / 450 Wp / IP-67 / Schutzklasse II • 1x Zendure Solarflow 800, Max. DC 2400, VDC 15-55V, Max. AC 600W (Firmware per Standort-Erkennung / Netzprofil CH_NA EEA-NE7-CH2020 gedrosselt) • 1x Zendure Erweiterungsbatterie AB2000/S/X, 1920 Wh • 1x Anschlusskabel vorkonfektioniert mit Betteri Buchse BC01 IP67, 3moder 20m / 3x1,0mm2 Leitung / AC Seitig CH-Typ 13 Stecker IP 55 • 2x Zur sicheren abdeckung nicht verwendeter MC4 Anschlüsse am Solarflow 800 Pro

Konform nach ESTI-Mitteilung 07/2014 und in Übereinstimmung mit der Verordnung über elektrische Niederspannungserzeugnisse (NEV; SR 734.26) (Stand 14.08.2024).

Dazu angewandte Normen:

JA Solar JAM54D41-450/LB - Bifacial-Doppelglas	N 61215-1:2016, EN 61215-1-1:2016, IEC 61215-2:2016, EN 61215-2:2017, IEC 61730-1:2016, EN IEC 61730-1:2018, EN IEC 61730-1:2018/AC:2018-06, IEC 61730-2:2016, EN IEC 61730-2:2018, EN IEC 61730-2:2018/AC:2018-06
Zendure Solarflow 800	2014/53/EU (RED), 2011/65/EU (RoHS), 2015/863/EU (RoHS), EN 62109-1:2010, EN 62109-2:2011, ETSI EN 301 489-1 V2.2.3 (2019-11), ETSI EN 301 489-3 V2.1.1 (2019-03), ETSI EN 301 489-17 V3.2.4 (2020-09), EN 55032:2015+A11:2020, EN 55035:2017+A11:2020, ETSI EN 300 328 V2.2.2 (2019-07), ETSI EN 300 440 V2.2.1 (2018-07), IEC 62321-3-1:2013, IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-6:2015, IEC 62321-7-1:2015, IEC 62321-7-2:2017, IEC 62321-8:2017
Erweiterungsbatterie AB2000/S/X	EN IEC 62368-1:2020+A11:2020 EN 55032:2015+A11:2020 EN 55035: 2017+A11: 2020 EN IEC 61000-3-2: 2019 EN 61000-3-3: 2013 +A1:2019 IEC 62321-3-1:2013 IEC 62321-4:2013+AMD1:2017 IEC 62321-5:2013 IEC 62321-6:2015 IEC 62321-7-1:2015 IEC 62321-7-2:2017 IEC 62321-8:2017
Zendure BC01 Anschlusskabel vorkonfektioniert in 3m	Betteri Buchse Wechselrichterseite, Schutzart IEC EN 60529 IP67, Anschlusskabel 5m oder 10m H07RN-F, EN 50525-2-21: 2011, Stecker CH Typ 13: IEC 60884-1 (Ed 4.0): 2022 / SN 441011-1: 2019 +Corr2019 / SN 441011-2-1:2021, IP55
Stäubli Abschlusskappe MC4/Evo2	Salznebelsprühtest, Schärfegrad 6, IEC 60068-2-52; UV-Beständigkeit (ISO 4892-2/3);
ROHS Konformität	Gesamtes Set konform gemäss IEC EN 63000: 2018

Michael Sebel, Geschäftsführung
erneuer.bar services GmbH

M. Sebel

450 - 480 Wp Plug & Play (CN), 1 Panels / Solarflow 800 / Version 1.0 / Datum: 14.08.2024

CE Declaration of Conformity

Directive 2014/30/EU (Electromagnetic Compatibility)



Issuer's name and address:

Shanghai JA Solar Technology Co. Ltd
No 118, Lane 3111, West Huancheng road, Feng Xian District, Shanghai 201401, P.R. CHINA
Tel: +86 21 3718 1000

Product: Crystalline silicon photovoltaic modules

Type designation:

JAM60S10-XXX/MR, JAM72S10-XXX/MR, JAM60S17-XXX/MR, JAM72S17-XXX/MR, JAM78S10-XXX/MR
JAM60D10-XXX/MB, JAM72D10-XXX/MB, JAM78D10-XXX/MB
JAM60S20-XXX/MR, JAM60S21-XXX/MR, JAM66S20-XXX/MR, JAM72S20-XXX/MR
JAM60D20-XXX/MB, JAM72D20-XXX/MB
JAM54S30-XXX/MR, JAM54S31-XXX/MR, JAM66S30-XXX/MR, JAM72S30-XXX/MR, JAM78S30-XXX/MR
JAM54D30-XXX/MB, JAM54D31-XXX/MB, JAM66D30-XXX/MB, JAM72D30-XXX/MB, JAM78D30-XXX/MB
JAM54S30-XXX/GR, JAM54S31-XXX/GR, JAM66S30-XXX/GR, JAM72S30-XXX/GR, JAM78S30-XXX/GR
JAM54D30-XXX/GB, JAM54D31-XXX/GB, JAM66D30-XXX/GB, JAM72D30-XXX/GB, JAM78D30-XXX/GB
JAM54D40-XXX/GB, JAM54D41-XXX/GB, JAM66D40-XXX/GB, JAM72D40-XXX/GB, JAM78D40-XXX/GB
JAM54D40-XXX/MB, JAM54D41-XXX/MB, JAM66D40-XXX/MB, JAM72D40-XXX/MB, JAM78D40-XXX/MB
JAM54S40-XXX/GR, JAM54S41XXX/GR, JAM66S40-XXX/GR, JAM72S40-XXX/GR, JAM78S40-XXX/GR
JAM54S40-XXX/MR, JAM54S41XXX/MR, JAM66S40-XXX/MR, JAM72S40-XXX/MR, JAM78S40-XXX/MR
JAM54S30-XXX/LR, JAM54S31-XXX/LR, JAM72S30-XXX/LR, JAM78S30-XXX/LR, JAM72S40-XXX/LR, JAM78S40-XXX/LR
JAM54D30-XXX/LB, JAM54D40-XXX/LB, JAM54D41-XXX/LB, JAM72D30-XXX/LB, JAM78D30-XXX/LB, JAM66D45-XXX/LB, JAM72D40-XXX/LB, JAM72D42-XXX/LB, JAM78D40-XXX/LB

The designated product is in conformity with the European Directive: 2014/30/EU

Council Directive on the harmonization of the laws of the Member States relating to electrical equipment designed for use within certain voltage limits.

The technical documentation and full compliance with the standards listed below proved the conformity of the product with the requirements of the above-mentioned EC Directive:

EN 61000-6-2:2005

EN 61000-6-3:2007+A1:2011

The institute Intertek Testing Services Shanghai, Building No.86, 1198 Qinzhou Road (North), Shanghai 200233(China) has tested and certified the product.

Certificate No.: 230501326SHA-V1

We hereby declare this Declaration of Conformity is issued under the sole responsibility of Shanghai JA Solar Technology Co. Ltd

Shanghai,

Shanghai JA Solar Technology Co., Ltd.

August 11th, 2023

CE Declaration of Conformity

Directive 2014/35/EU (Low Voltage)



Issuer's name and address:

Shanghai JA Solar Technology Co. Ltd
No 118, Lane 3111, West Huancheng road, Feng Xian District, Shanghai 201401, P.R. CHINA
Tel: +86 21 3718 1000

Product: Crystalline silicon photovoltaic modules

Type designation:

JAM60S10-XXX/MR, JAM72S10-XXX/MR, JAM60S17-XXX/MR, JAM72S17-XXX/MR, JAM78S10-XXX/MR
JAM60D10-XXX/MB, JAM72D10-XXX/MB, JAM78D10-XXX/MB
JAM60S20-XXX/MR, JAM60S21-XXX/MR, JAM66S20-XXX/MR, JAM72S20-XXX/MR
JAM60D20-XXX/MB, JAM72D20-XXX/MB
JAM54S30-XXX/MR, JAM54S31-XXX/MR, JAM66S30-XXX/MR, JAM72S30-XXX/MR, JAM78S30-XXX/MR
JAM54D30-XXX/MB, JAM54D31-XXX/MB, JAM66D30-XXX/MB, JAM72D30-XXX/MB, JAM78D30-XXX/MB
JAM54S30-XXX/GR, JAM54S31-XXX/GR, JAM66S30-XXX/GR, JAM72S30-XXX/GR, JAM78S30-XXX/GR
JAM54D30-XXX/GB, JAM54D31-XXX/GB, JAM66D30-XXX/GB, JAM72D30-XXX/GB, JAM78D30-XXX/GB
JAM54D40-XXX/GB, JAM54D41-XXX/GB, JAM66D40-XXX/GB, JAM72D40-XXX/GB, JAM78D40-XXX/GB
JAM54D40-XXX/MB, JAM54D41-XXX/MB, JAM66D40-XXX/MB, JAM72D40-XXX/MB, JAM78D40-XXX/MB
JAM54S40-XXX/GR, JAM54S41XXX/GR, JAM66S40-XXX/GR, JAM72S40-XXX/GR, JAM78S40-XXX/GR
JAM54S40-XXX/MR, JAM54S41XXX/MR, JAM66S40-XXX/MR, JAM72S40-XXX/MR, JAM78S40-XXX/MR
JAM54S30-XXX/LR, JAM54S31-XXX/LR, JAM72S30-XXX/LR, JAM78S30-XXX/LR, JAM72S40-XXX/LR, JAM78S40-XXX/LR
JAM54D30-XXX/LB, JAM54D40-XXX/LB, JAM54D41-XXX/LB, JAM72D30-XXX/LB, JAM78D30-XXX/LB, JAM66D45-XXX/LB, JAM72D40-XXX/LB, JAM72D42-XXX/LB, JAM78D40-XXX/LB

The designated product is in conformity with the European Directive: 2014/30/EU
Council Directive on the harmonization of the laws of the Member States relating to electrical equipment designed for use within certain voltage limits.

The technical documentation and full compliance with the standards listed below proved the conformity of the product with the requirements of the above-mentioned EC Directive:

EN IEC 61730-1:2018
EN IEC 61730-1:2018/AC :2018-06
EN IEC 61730-2:2018
EN IEC 61730-2:2018/AC :2018-06

The institute TUV SUD Product Service GmbH, Ridlerstrasse 65, 80339 Munich (Germany) has tested and certified the product.

Certificate No.: N8A072092 0296

We hereby declare this Declaration of Conformity is issued under the sole responsibility of Shanghai JA Solar Technology Co. Ltd

Shanghai,
Shanghai JA Solar Technology Co., Ltd.
August 11th, 2023



Harvest the Sunshine

JA SOLAR

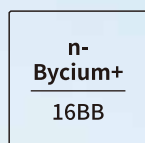
510W



JAM60D41 LB Black Module

n-type Double Glass Bifacial Modules

Premium Cells



MBB Half-Cell Technology

26%



Cell Conversion Efficiency

Premium Modules



Higher power generation better LCOE



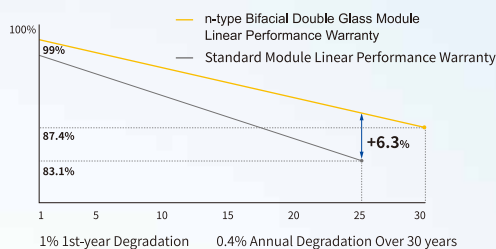
n-type with very Lower LID



Better Temperature Coefficient



Better low irradiance response



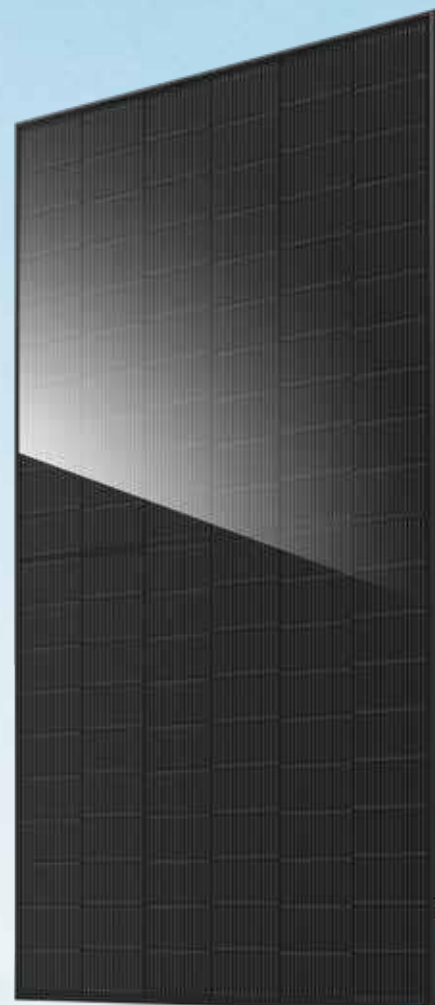
15-year product warranty



30-year linear power output warranty

Comprehensive Certificates

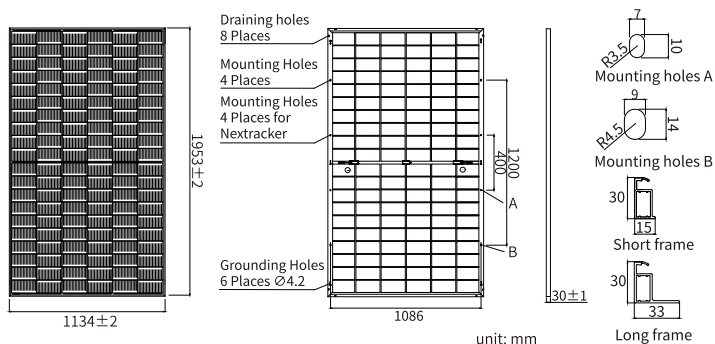
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



DEEP BLUE 4.0 Pro

JAM60D41 LB

n-type Double Glass Bifacial Modules



MECHANICAL PARAMETERS

Cell	Mono
Weight	27.3kg
Dimensions	1953±2mm×1134±2mm×30±1mm
Cable Cross Section Size	4mm²(IEC), 12 AWG(UL)
No. of cells	120(6×20)
Junction Box	IP68, 3diodes
Connector	QC 4.10-351/ MC4-EVO2A
Cable Length (Including Connector)	Portrait: 300mm(+)/400mm(-) Landscape: 1200mm(+)/1200mm(-)
Front Glass/Back Glass	2.0mm/2.0mm
Packaging Configuration	36pcs/Pallet, 864pcs/40HQ Container

Remark: customized frame color and cable length available upon request

ELECTRICAL PARAMETERS AT STC

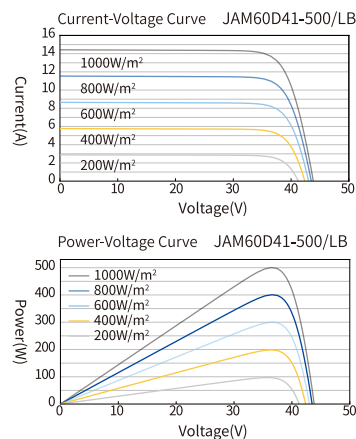
TYPE	JAM60D41 -485/LB	JAM60D41 -490/LB	JAM60D41 -495/LB	JAM60D41 -500/LB	JAM60D41 -505/LB	JAM60D41 -510/LB
Rated Maximum Power(P _{max}) [W]	485	490	495	500	505	510
Open Circuit Voltage (V _{oc}) [V]	43.25	43.45	43.65	43.85	44.05	44.25
Maximum Power Voltage(V _{mp}) [V]	36.28	36.49	36.70	36.91	37.11	37.31
Short Circuit Current(I _{sc}) [A]	14.24	14.30	14.36	14.42	14.48	14.54
Maximum Power Current(I _{mp}) [A]	13.37	13.43	13.49	13.55	13.61	13.67
Module Efficiency [%]	21.9	22.1	22.4	22.6	22.8	23.0
Power Tolerance	0~+3%					
Temperature Coefficient of I _{sc} (α _{Isc})	+0.045%/°C					
Temperature Coefficient of V _{oc} (β _{Voc})	-0.250%/°C					
Temperature Coefficient of P _{max} (γ _{Pmp})	-0.290%/°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.

ELECTRICAL CHARACTERISTICS WITH 10% SOLAR IRRADIATION RATIO

TYPE	JAM60D41 -485/LB	JAM60D41 -490/LB	JAM60D41 -495/LB	JAM60D41 -500/LB	JAM60D41 -505/LB	JAM60D41 -510/LB
Rated Max Power(P _{max}) [W]	524	529	535	540	545	551
Open Circuit Voltage(V _{oc}) [V]	43.25	43.45	43.65	43.85	44.05	44.25
Max Power Voltage(V _{mp}) [V]	36.28	36.49	36.70	36.91	37.11	37.31
Short Circuit Current(I _{sc}) [A]	15.38	15.44	15.51	15.57	15.64	15.70
Max Power Current(I _{mp}) [A]	14.44	14.50	14.57	14.63	14.70	14.76
Irradiation Ratio (rear/front)	10%					

CHARACTERISTICS



OPERATING CONDITIONS

Maximum System Voltage	1500V DC
Operating Temperature	-40°C~+85°C
Maximum Series Fuse Rating	30A
Maximum Static Load, Front	5400Pa(112 lb/ft²)
Maximum Static Load, Back	2400Pa(50 lb/ft²)
NOCT	45±2°C
Bifaciality	80%±10%
Safety Class	Class II
Fire Performance	UL Type 29/Class C



Headquarters

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

Version No. : Global-EN-20241118A

Declaration of antireflection glass

JA Solar as the PV module manufacturer hereby declares that all the JA Solar modules recently manufactured (starting from 2014) have on the front side a tempered and high-transmission glass covered by anti-reflection coating to reduce light reflection and hence absorb more solar energy and generate more electric current.

All JA Solar customers are encouraged to consult with JA Solar technical support staff with any further question they may have.

Yours faithfully,

Shanghai JA Solar PV Technology Co., Ltd.
Global Customer Service Department
March 18th, 2020

Certificate of Conformity

Certificate Number: CN-PVES-250223

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture(s). The manufacturer(s) shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Applicant:	Zendure USA Inc. 1765 E BAYSHORE RD # 201 EAST PALO ALTO, CA 94303-5501 USA
Product:	SolarFlow 800 Pro Power Station SolarFlow 800 AC+ Power Station
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	ZDSF800P, ZDSF800AC
Brand Name<s>:	ZENDURE SuperCharged+-
Product Complies with:	NA/EEA-NE7:2020, Grid connection for power generation systems to the low-voltage grid Type approval for Type A2
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2 nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012
Test Report No.<s>:	250103067GZU-002, 20 May 2025

Additional information in Appendix.


Signature

Certification Manager: Grady Ye
Date: 27 May 2025



PRD N° 306B

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-250223

Model	ZDSF800P	ZDSF800AC
PV Input		
Max. input Voltage	55 Vdc	--
MPPT voltage Range	14 -55 Vdc	--
Max. input current	4*18 Adc	--
PV Isc	4*22.5 Adc	--
AC Side		
Nominal input/output voltage	230 Vac	
Nominal input/output Frequency	50 Hz	
Max. output current (on-grid)	3.5 Aac	
Max. output power(on-grid)	800 W	
Max. output current (off-grid)	4.35 Aac	
Max. output power(off-grid)	1000 VA	
Max. input current	4.35 Aac	
Max. input power	1000 W	
Power factor range	0.8leading~0.8lagging	
Battery Side		
Battery Type	LiFePO	
Battery Rated Energy	1920 Wh	
Battery Rated Voltage	48 V dc	
Charge/Discharge Voltage Range	37.5~54.75 Vdc	
Max. Charge/Discharge Power (Without Extra Battery)	1440 W	
Max. Charge/Discharge Current (Without Extra Battery)	30 Adc	
Max. Charge/Discharge Power (With Extra Battery)	2000 W	
Max. Charge/Discharge Current (With Extra Battery)	40 Adc	
General information		
Safety level	Class I	
Ingress Protection	IP 65	
Operation Ambient Temperature	-20℃ - +55℃	
Software version	V1	

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

EU Declaration of Conformity

Product : Add-on Battery AB2000

Model : ZDAB2000

Product photo :



We, ZENDURE TECHNOLOGY CO., LIMITED herewith declare under our sole responsibility that the above-mentioned product meets the provisions of the following EC Council Directives and Standards. All supporting documentation is retained under the premises of the manufacturer.

Directives:

2014/30/EU (EMC)
2014/35/EU (LVD)
2011/65/EU (RoHS)
2015/863/EU (RoHS)

Product Safety and Performance Standard(s):

EN IEC 62368-1:2020+A11:2020

EMC Standards:

EN 55032:2015+A11:2020
EN 55035: 2017+A11:2020
EN IEC 61000-3-2: 2019
EN 61000-3-3: 2013 +A1:2019

RoHS Standards:

IEC 62321-3-1:2013
IEC 62321-4:2013+AMD1:2017

IEC 62321-5:2013
IEC 62321-6:2015
IEC 62321-7-1:2015
IEC 62321-7-2:2017
IEC 62321-8:2017

European Authorized Representative:

Zendure DE GmbH

Hoferstraße 9B, 71636 Ludwigsburg

Signed for and on behalf of:

<u>Augus xiong</u>	<u>Certification Engineer</u>	<u>2023.12.13</u>
Sign and steel	Position	Date of issue