

ist Hersteller und verantwortlich für:

## Konformitätserklärung / Declaration of Conformity

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Produkt-Typ:</b> | Plug & Play Photovoltaik-Set für Netzparallelbetrieb steckbar mittels Haushaltsstecker in Endstromkreis                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Modell:</b>      | 900 - 960 Wp Plug & Play (CN), 2 Panels / Solarflow 800                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Komponenten:</b> | <ul style="list-style-type: none"> <li>• 2x JA Solar JAM54D41-450/LB / 450 Wp / IP-67 / Schutzklasse II</li> <li>• 1x Zendure Solarflow 800, Max. DC 2400, VDC 15-55V, Max. AC 600W (Firmware per Standort-Erkennung / Netzprofil CH_NA EEA-NE7-CH2020 gedrosselt)</li> <li>• 1x Zendure Erweiterungsbatterie AB2000/S/X, 1920 Wh</li> <li>• 1x Anschlusskabel vorkonfektioniert mit Betteri Buchse BC01 IP67, 3moder 20m / 3x1,0mm2 Leitung / AC Seitig CH-Typ 13 Stecker IP 55</li> </ul> |

**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<br>- 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<br>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<br>Anschlusskabel<br>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                                                                                                                                                                                                                                         |
| ROHS Konformität                                          | Gesamtes Set konform gemäss IEC EN 63000: 2018                                                                                                                                                                                                                                                                                                                                                                                                                           |

Michael Sebel, Geschäftsführung  
erneuer.bar services GmbH



## 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

510W

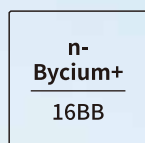


JA SOLAR

## 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



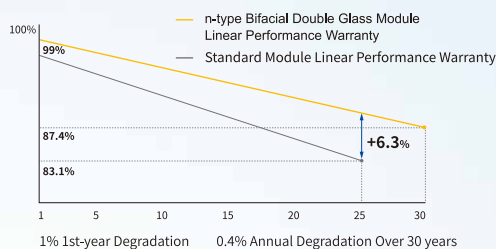
n-type with very  
Lower LID



Better Temperature  
Coefficient



Better low irradiance  
response



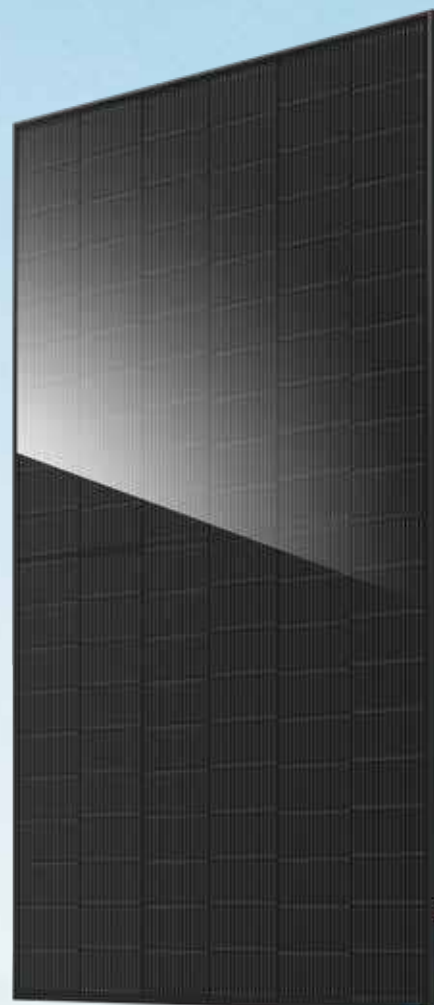
15-year product  
warranty



30-year linear power  
output warranty

### Comprehensive Certificates

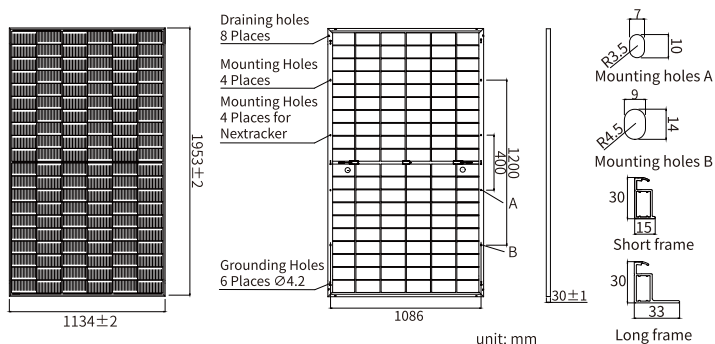
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



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<br>(Including Connector) | Portrait: 300mm(+)/400mm(-)<br>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

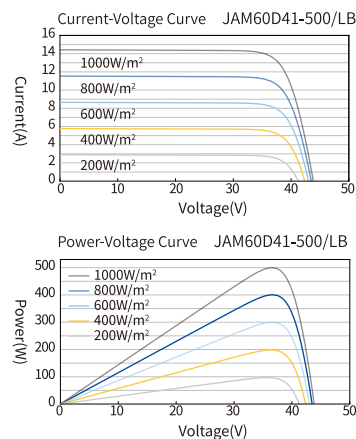
| TYPE                                   | JAM60D41<br>-485/LB                                | JAM60D41<br>-490/LB | JAM60D41<br>-495/LB | JAM60D41<br>-500/LB | JAM60D41<br>-505/LB | JAM60D41<br>-510/LB |
|----------------------------------------|----------------------------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated Maximum Power(Pmax) [W]          | 485                                                | 490                 | 495                 | 500                 | 505                 | 510                 |
| Open Circuit Voltage (Voc) [V]         | 43.25                                              | 43.45               | 43.65               | 43.85               | 44.05               | 44.25               |
| Maximum Power Voltage(Vmp) [V]         | 36.28                                              | 36.49               | 36.70               | 36.91               | 37.11               | 37.31               |
| Short Circuit Current(Isc) [A]         | 14.24                                              | 14.30               | 14.36               | 14.42               | 14.48               | 14.54               |
| Maximum Power Current(Imp) [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 Isc(α_Isc)  | +0.045%/°C                                         |                     |                     |                     |                     |                     |
| Temperature Coefficient of Voc(β_Voc)  | -0.250%/°C                                         |                     |                     |                     |                     |                     |
| Temperature Coefficient of Pmax(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<br>-485/LB | JAM60D41<br>-490/LB | JAM60D41<br>-495/LB | JAM60D41<br>-500/LB | JAM60D41<br>-505/LB | JAM60D41<br>-510/LB |
|--------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Rated Max Power(Pmax) [W]      | 524                 | 529                 | 535                 | 540                 | 545                 | 551                 |
| Open Circuit Voltage(Voc) [V]  | 43.25               | 43.45               | 43.65               | 43.85               | 44.05               | 44.25               |
| Max Power Voltage(Vmp) [V]     | 36.28               | 36.49               | 36.70               | 36.91               | 37.11               | 37.31               |
| Short Circuit Current(Isc) [A] | 15.38               | 15.44               | 15.51               | 15.57               | 15.64               | 15.70               |
| Max Power Current(Imp) [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 |

## 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 18<sup>th</sup>, 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.

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