

ist Hersteller und verantwortlich für:

Konformitätserklärung / Declaration of Conformity

Produkt-Typ:	Plug & Play Photovoltaik-Set für Netzparallelbetrieb steckbar mittels Haushaltsstecker in Endstromkreis. Batteriesystem zw. Panels und Wechselrichter gesteckt.
Modell:	450-480 Wp Plug & Play (CN), 1 Panel / Hoymiles / Zendure, 1kWh
Komponenten:	• 1x JA Solar JAM54D41-450/LB / 450 Wp / IP-67 / Schutzklasse II • 1x Hoymiles HM-400 mit N/A Schutz und eingebauter RCMU / IP67 Schutzart / Schutzklasse II / Input max. 60VDC, Output max. 230VAC, 50-60Hz, 400VA, 1,74A • 1x Anschlusskabel vorkonfektioniert mit Betteri Buchse IP67, 5m, 10m, 15m oder 20m / 3x1,5mm² Leitung / AC Seitig CH-Typ 13 Stecker IP 55 • 1x Zendure PV Hub 2000, max 500W pro MPPT, Max DC 16-60V • 1x Zendure Erweiterungsbatterie AB1000(S), 960 Wh

Konform nach ESTI-Mitteilung 07/2014 und in Übereinstimmung mit der Verordnung über elektrische Niederspannungserzeugnisse (NEV; SR 734.26) (Stand 05.06.2025).

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
Hoymiles HMS-400W-1T	VDE-ARN-N 4105: 2018-11, VDE V 0124-100:2019 & EN50549-1:2019, VFR 2019 IEC/EN 62109-1:2010/-2:2011, IEC/EN 61000-6-1:2019;EN 61000-6-2:200; EN 61000-6-3:2007+A1:2011; EN 61000-6-4:2019; EN 61000-3-2:2019; EN 61000-3-3:2013+A1:2019, IEC/EN 62311:2008 NEMA (IP67) Gehäuse; 6000 V Stromstosschutz
Hoymiles Anschlusskabel vorkonfektioniert in 5m, 10m, 15m oder 20m	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
Zendure PV Hub 1200	EN 62109-1:2010 EN 62093:2005 EN 62509:2011 EN IEC 62311:2020 EN 50665:2017 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) 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 AB1000(S)	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
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 Panel / Hoymiles / Zendure, 1kWh / Version 1.0 / Datum: 05.06.2025

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
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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

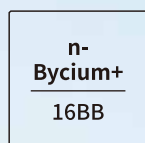


JA SOLAR

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



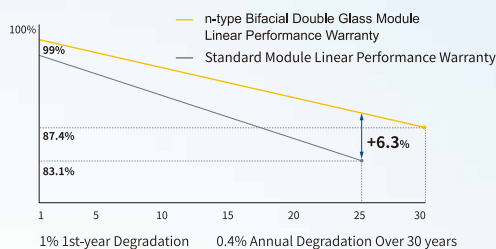
n-type with very Lower LID



Better Temperature Coefficient



Better low irradiance response



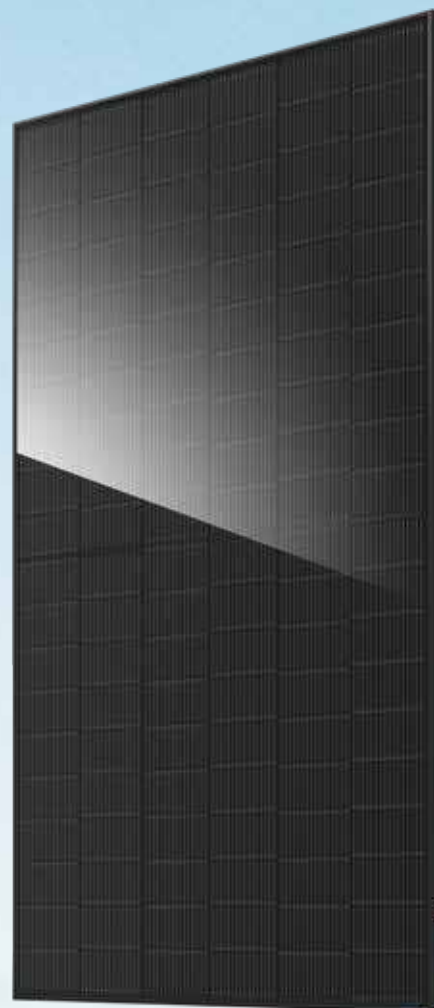
15-year product warranty



30-year linear power output warranty

Comprehensive Certificates

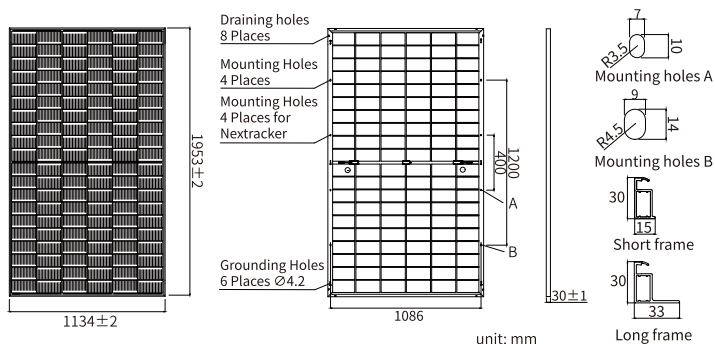
- IEC 61215, IEC 61730, UL 61215, UL 61730
- ISO 9001: 2015 Quality management systems
- ISO 14001: 2015 Environmental management systems
- ISO 45001: 2018 Occupational health and safety management systems
- IEC 62941: 2019 Terrestrial photovoltaic (PV) modules - Quality system for PV module manufacturing



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 (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

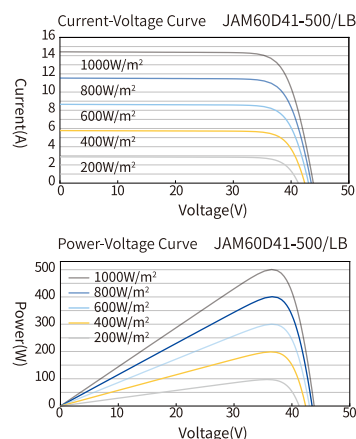
TYPE	JAM60D41 -485/LB	JAM60D41 -490/LB	JAM60D41 -495/LB	JAM60D41 -500/LB	JAM60D41 -505/LB	JAM60D41 -510/LB
Rated Maximum Power(Pmax) [W]	485	490	495	500	505	510
Open Circuit Voltage (Voc) [V]	43.25	43.45	43.65	43.85	44.05	44.25
Maximum Power Voltage(Vmp) [V]	36.28	36.49	36.70	36.91	37.11	37.31
Short 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 -485/LB	JAM60D41 -490/LB	JAM60D41 -495/LB	JAM60D41 -500/LB	JAM60D41 -505/LB	JAM60D41 -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 18th, 2020

EU DECLARATION OF CONFORMITY

(DoC No. 23013002)

We **Hoymiles Power Electronics Inc.**
No.18 Kangjing Road, Hangzhou 310015, Zhejiang Province, P.R. China

as the manufacturer, declare under our sole responsibility that the following products

PRODUCT: **PV Microinverter**
MODELS: **HMS-2000-4T, HMS-1800-4T, HMS-1600-4T**
HMS-2000C-4T, HMS-1800C-4T, HMS-1600C-4T, HMS-1400C-4T
HMS-1000-2T, HMS-900-2T, HMS-800-2T, HMS-700-2T, HMS-600-2T
HMS-500-1T, HMS-450-1T, HMS-400-1T, HMS-350-1T, HMS-300-1T

to which this declaration relates, are in conformity with the following directive and standards:

Directives	2014/53/EU (RE Directive)
Article 3.1(b) EMC	EN 301 489-1 V2.2.3 (2019-11) EN 301 489-3 V2.1.1 (2019-03) EN 61000-6-1:2019 EN 61000-6-2:2019 EN 61000-6-3:2021 EN 61000-6-4:2019 EN 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A1:2019+A2:2021
Article 3.1(a) Safety	EN 62109-1:2010 EN 62109-2:2011
Article 3.1(a) Health	EN 62479:2010 EN 50663:2017
Article 3.2 Radio	EN 300 220-1 V3.1.1 (2017-02) EN 300 220-2 V3.1.1 (2017-02)

Manufacturer: Hoymiles Power Electronics Inc.

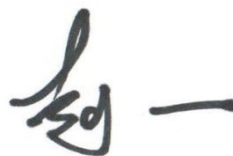
Address: No.18 Kangjing Road, Hangzhou 310015, Zhejiang Province, P.R. China

EU Importer: Hoymiles Power Electronics B.V.

Address: High Tech Campus 9, Unit BK 3.28, 5656 AE Eindhoven, Netherlands

This Declaration of Conformity is not valid any longer, in case, without any written authorization by Hoymiles Power Electronics Inc.:

- The product is modified, supplemented or changed in any other way
- The product is used or installed improperly.

A handwritten signature in black ink, consisting of stylized Chinese characters followed by a horizontal line.

Yi Zhao, Vice President.

2023-01-30

Hangzhou, China

Hoymiles Power Electronics Inc.

No.18 Kangjing Road, Hangzhou 310015, China

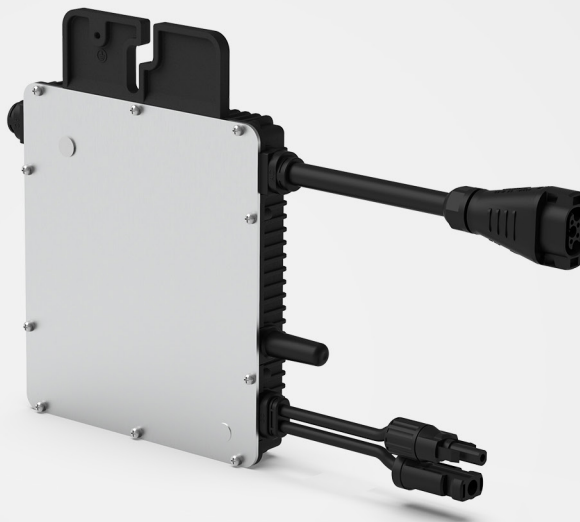
Tel: +86 571 28056101

Fax: +86 571 28056137

<http://www.hoymiles.com/>

Appendix:

Product Specifications	
Frequency Range	863.25 MHz to 869.75 MHz
RF Output Power (EIRP)	11.69 dBm
Modulation Type	GFSK
Type of Antenna	External Omni Antenna
Antenna Gain	2.0 dBi



Datenblatt Mikro-Wechselrichter

HMS-300
HMS-350
HMS-400
HMS-450
HMS-500

Beschreibung

Mit einer Ausgangsleistung von bis zu 500 VA gehört Hoymiles neue Mikro-Wechselrichter-Serie HMS-500 zu den besten 1-in-1-Mikro-Wechselrichtern.

Alle aufgeführten Modelle sind mit einer Blindleistungssteuerung ausgestattet und erfüllen die Anforderungen von EN 50549-1:2019, VDE-AR-N 4105:2018, VFR2019 usw.

Die neue Sub-1G-Funklösung ermöglicht eine stabilere Kommunikation unter verschiedenen Umgebungsbedingungen.

Merkmale

01

Hochleistungs-1-in-1-Mikro-Wechselrichter mit einer Ausgangsleistung von bis zu 500 VA

02

Mit Blindleistungssteuerung, konform mit EN 50549-1:2019, VDE-AR-N 4105:2018, VFR2019 usw.

03

Sicherer für Aufdach-Solarstationen mit Schnellabschaltung und isoliertem Transformator

04

An ein Modul angeschlossen; flexibel für verschiedene Anwendungen

05

Die Sub-1G-Funklösung ermöglicht eine stabile Kommunikation mit dem Hoymiles-Gateway DTU

Technische Daten

Modell	HMS-300-1T	HMS-350-1T	HMS-400-1T	HMS-450-1T	HMS-500-1T
Angaben zum Eingangsstrom (DC)					
Üblicherweise verwendete Modulleistung (W)	240 bis 405+	280 bis 470+	320 bis 540+	360 bis 600+	400 bis 670+
Maximale Eingangsspannung (V)	60	60	65	65	65
MPPT-Spannungsbereich (V)	16 - 60				
Einschaltspannung (V)	22				
Maximaler Eingangsstrom (A)	11,5	11,5	12,5	13,3	14
Maximaler Eingangskurzschlussstrom (A)	16	16	20	20	20
Angaben zum Ausgangsstrom (AC)					
Nennausgangsleistung (VA)	300	350	400	450	500
Nennausgangsstrom (A)	1,30	1,52	1,74	1,96	2,17
Nennausgangsspannung/-bereich (V) ¹	230/180 - 275				
Nennfrequenz/-bereich (Hz) ¹	50/45 - 55				
Leistungsfaktor (einstellbar)	> 0,99 standardmäßig 0,8 voreilend ... 0,8 nacheilend				
Klirrfaktor	< 3 %				
Maximale Einheiten pro 10-AWG-Strang ²	24	21	18	16	14
Maximale Einheiten pro 12-AWG-Strang ²	15	13	11	10	9
Wirkungsgrad					
CEC-Spitzenwirkungsgrad	96,7 %	96,7 %	96,7 %	96,5 %	96,5 %
MPPT-Nennwirkungsgrad	99,8 %				
Leistungsaufnahme bei Nacht (mW)	< 50				
Mechanische Daten					
Umgebungstemperaturbereich (°C)	-40 bis +65				
Abmessungen (B × H × T mm)	182 × 164 × 30				
Gewicht (kg)	1,75				
Schutzart	Außenbereich IP67 (NEMA 6)				
Kühlung	Natürliche Konvektion - Keine Lüfter				
Merkmale					
Kommunikation	Sub-1G				
Art der Isolierung	Galvanisch isolierter HF-Transformator				
Überwachung	Hoymiles S-Miles Cloud ³				
Konformität	EN 50549-1: 2019, VDE-AR-N 4105: 2018, VFR2019, IEC/EN 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3				

*1 Nennspannung/-frequenzbereich können je nach örtlichen Anforderungen variieren.

*2 Die genaue Anzahl der Mikro-Wechselrichter pro Strang entnehmen Sie bitte den örtlichen Anforderungen.

*3 Hoymiles-Überwachungssystem

EU Declaration of Conformity

Product : Smart PVHub 1200
Model : ZDSPVH1200

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:

2014/53/EU (RED)
2011/65/EU (RoHS)
2015/863/EU (RoHS)

Product Safety and Performance Standard(s):

EN 62109-1:2010
EN 62093:2005
EN 62509:2011

Health Standards: EN IEC 62311:2020
EN 50665:2017

EMC Standards: 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)

Radio Standards: ETSI EN 300 328 V2.2.2 (2019-07)
ETSI EN 300 440 V2.2.1 (2018-07)

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

Signed for and on behalf of:

Augus xiong
Sign and steel

Certification Engineer
Position

2023.4.30
Date of issue

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