

Unit Certificate Einheitenzertifikat

By the product certificate number / Durch die Produktzertifikatsnummer

No. 250082RECO05-E1-A-CER

Issued to / Lautend auf

License holder / Lizenzinhaber:

EcoFlow Inc.

RM 401, Plant #1, Runheng Industrial Zone, Fuyuan Road, Zhancheng Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Trademark / Warenzeichen:



ECOFLOW

Manufacturer / Hersteller:

Huizhou Sunwoda Energy Technology Co., Ltd.

Floor 2 of Building C, Floor 7 and Floor 15 of Building B, Sunwoda Electronic Factory, Tangjia Community, Fenghuang Street, Guangming District, Shenzhen, China

It is certified that the product / Es ist zertifiziert, dass das Produkt

Type of generator / Generatortyp: **Bidirectional Converter** / Bidirektionaler Konverter

Models / Modelle:

EF-EA-HD-U2K-800 / EF-EA-HD-U2K-600 / EF-EA-HD-P2K-800 /
EF-EA-HD-P2K-600 / EF-EA-AC-P2K-800 / EF-EA-AC-P2K-600 /
EF-EA-HD-M2K-800 / EF-EA-HD-M2K-600 / EF-EA-AC-2K-800 /
EF-EA-AC-2K-600 / EF-EA-HD-U4K-800 / EF-EA-HD-U4K-600

Technical Data /
Technische Daten:

Rated AC Power / AC-Nennleistung

See page 3 / Siehe Seite 3

Rated AC Voltage / Nennwechselspannung

230 V_{AC}

Rated Frequency / Nennfrequenz

50 Hz

DC Current (IN / OUT) / DC Strom (IN / OUT)

See page 3 / Siehe Seite 3

Firmware version / Firmware Version

1.0.0.117

Number of phases / Anzahl der Phasen

Single Phase / Einphasig
(L/N/PE)

Isolation transformer / Isolationstransformator

Yes / Ja

Is in compliance with the Network connection rule / In Übereinstimmung mit der Anwendungsregel:

- **VDE-AR-N 4105: 2018-11 + Correction 1: 2020-10**

"Generators connected to the low-voltage distribution network / Erzeugungsanlagen am Niederspannungsnetz"

Technical minimum requirements for connection and parallel operation of power generation systems connected to the low-voltage network
/ Technische Mindestanforderungen für Anschluss und Parallelbetrieb von Erzeugungsanlagen am Niederspannungsnetz

Based on tests requirements defined in / Basierend auf Tests Anforderungen definiert in:

- **DIN VDE V 0124-100 (VDE V 0124-100): 2020-06.**

"Network integration of power generation systems – Low voltage / Netzintegration von Erzeugungsanlagen"

Test requirements for power generation units intended for connection to and parallel operation on the low-voltage network /
Niederspannung – Prüfanforderungen an Erzeugungseinheiten, vorgesehen zum Anschluss und Parallelbetrieb am
Niederspannungsnetz

This certificate is based upon test results offered in the test report No. SUEE250300007051 issued on 09th April 2025. / Dieses Zertifikat basiert auf den Testergebnissen, des Prüfberichts Nr. SUEE250300007051, herausgegeben am 09. April 2025.

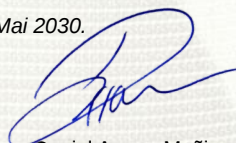
The above-mentioned generating unit is certified according to the SGS internal procedure PE.T-ECPE-13 based on the requirements of the UNE-EN ISO / IEC 17065 / Die oben genannte Erzeugungseinheit ist gemäß dem internen SGS-Verfahren PE.T-ECPE-13 basierend auf den Anforderungen der UNE-EN ISO / IEC 17065 zertifiziert.

This certificate replaces certificate No. 250082RECO05-A-CER. / Diese Bescheinigung ersetzt die Bescheinigung Nr. 250082RECO05-A-CER.

First issued on 22nd May 2025. / Zuerst veröffentlicht am: 22. Mai 2025.

This certificate is valid until 22nd May 2030. / Dieses Zertifikat ist gültig bis: 22. Mai 2030.

Madrid, 17th July 2025 / Madrid, 17. Juli 2025


Daniel Arranz Muñiz
Certification Manager



SGS Tecnos, S.A.U. C/ Trespaderna, 29 - 28042 Madrid
This certificate is issued by SGS under its General Conditions
for Product Certification at www.sgs.com/terms_and_conditions.
The status and validity of the certificate can be checked scanning the
QR code above included or through the following web [link](#).
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APPENDIX (ANHANG)

Annex to Certificate N° 250082RECO05-E1-A-CER

E.5 Requirements for the test report for power generation units with an input current >75 A E.5 Prüfbericht „Netrückwirkungen“ für Erzeugungseinheiten mit einem Eingangsstrom > 75 A (*)											
Extract from test report for unit certificate "Determination of electrical properties" Auszug aus dem Prüfbericht für Erzeugungseinheiten Bestimmung der elektrischen Eigenschaften"										No. SUEE250300007051	
System Manufacturer Anlagenhersteller:				Huizhou Sunwoda Energy Technology Co., Ltd.							
Manufacturer indications: Herstellerangaben:				Type of system: Anlagenart:		Bidirectional Converter					
				Max. active power PEmax max. Wirkleistung PEmax		EF-EA-HD-U2K-800					
						800 W					
				Rated voltage: Bemessungsspannung		L/N/PE, 230 VAC					
Measuring period: 2025 Feb 10 to 2025 Mar 13											
Flicker		Network impedance angle ψ_k Netzimpedanzwinkel ψ_k					32°				
		Initial flicker factor C ψ Anlagenflickerbeiwert C ψ					33%Pn	66%Pn	100%Pn		
							25.88	25.69	25.31		
Model: EF-EA-HD-U2K-800											
Harmonics Single-Phase Oberschwingungen											
Active power P/Pn [%] Wirkleistung P/Pn [%]	0	10	20	30	40	50	60	70	80	90	100
Ordinal number Ordnungszahl	I(%)	I(%)	I(%)	I(%)	I(%)	I(%)	I(%)	I(%)	I(%)	I(%)	I(%)
2	0.006	0.005	0.005	0.029	0.040	0.041	0.045	0.042	0.039	0.039	0.046
3	0.051	0.051	0.059	0.065	0.056	0.062	0.071	0.071	0.067	0.063	0.063
4	0.005	0.004	0.009	0.024	0.020	0.014	0.018	0.018	0.012	0.010	0.016
...	...	...	...	...	...	...	...	...	...	...	...
40	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.002	0.003	0.003

(*) the inverter outputs a current <75 A, thus Inter-harmonics and High Frequencies are not evaluated in accordance with the standard.



Full list of product references and nominal characteristics / Vollständige Liste der Produktreferenzen und nominalen Merkmale:

Model	EF-EA-HD-U2K-800	EF-EA-HD-U2K-600	EF-EA-HD-P2K-800	EF-EA-HD-P2K-600	EF-EA-AC-P2K-800	EF-EA-AC-P2K-600
PV Terminal (DC)						
Max. PV Input Voltage	60 V				/	
Operation Voltage Range	15-60 V				/	
Max. PV Input Current	14 A				/	
Number of MPP Trackers	4		3			
Battery Info						
Rated Voltage	19.2 V					
Rated Capacity	1.92 kWh					
Grid Terminal (AC)						
Rated Output Power	800 W	600 W	800 W	600 W	800 W	600 W
Rated Output Current	3.48 A	2.61 A	3.48 A	2.61 A	3.48 A	2.61 A
Rated Output Voltage	230 V, L/N/PE					
Rated Frequency	50 Hz					

Model	EF-EA-HD-M2K-800	EF-EA-HD-M2K-600	EF-EA-AC-2K-800	EF-EA-AC-2K-600	EF-EA-HD-U4K-800	EF-EA-HD-U4K-600
PV Terminal (DC)						
Max. PV Input Voltage	60 V		/		60 V	
Operation Voltage Range	15-60 V		/		15-60 V	
Max. PV Input Current	14 A		/		14 A	
Number of MPP Trackers	2		/		4	
Battery Info						
Rated Voltage	19.2 V					
Rated Capacity	1.92 kWh				3.84 kWh	
Grid Terminal (AC)						
Rated Output Power	800 W	600 W	800 W	600 W	800 W	600 W
Rated Output Current	3.48 A	2.61 A	3.48 A	2.61 A	3.48 A	2.61 A
Rated Output Voltage	230 V, L/N/PE					
Rated Frequency	50 Hz					

