

Certificate of Conformity

Certificate Number: CN-PVES-260170

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:	EcoFlow Inc. RM 401, Plant #1, Runheng Industrial Zone, Fuyuan Road, Zhancheng Community, Fuhai Street, Bao'an District, 518000 Shenzhen City, Guangdong Province, People's Republic of China
Product:	EcoFlow OCEAN 2 Hybrid Inverter Single-Phase
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	EF HD-P1-12K0-S2, EF HD-P1-10K0-S2, EFHD-P1-8K0-S2, EF HD-P1-6K0-S2, EFHD-P1-12K0-S2F, EF HD-P1-10K0-S2F, EFHD-P1-8K0-S2F, EF HD-P1-6K0-S2F, EFHD-P1-12K0-S2A, EF HD-P1-9K9-S2A, EF HD-P1-8K0-S2A
Brand Name<s>:	 EcoFlow
Product Complies with:	EN 50549-1:2019+A1:2023 EN 50549-10:2022
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>:	260129131GZU-001, 13 May 2026

Additional information in Appendix.

Signature

Certification Manager: Grady Ye
Date: 21 May 2026



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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-260170.

Model	EF HD-P1-6K0-S2, EF HD-P1-6K0-S2F	EF HD-P1-8K0-S2, EF HD-P1-8K0-S2F	EF HD-P1-10K0-S2, EF HD-P1-10K0-S2F	EF HD-P1-12K0-S2, EF HD-P1-12K0-S2F
PV Input Data				
Max. Input Power (W)	12000	16000	20000	24000
Input Voltage Range (V d.c.)	50-900			
Full load MPPT Voltage Range (V d.c.)	500-810			
Max. Input Current (A d.c.)	16 * 3			
Max. Short Circuit Current (A d.c.)	20 * 3			
Number of Strings per MPPT	3			
Number of MPP Trackers	1			
Battery Input Data				
Battery Type	Li-Ion			
Nominal Battery Voltage (V d.c.)	800			
Max. Continuous Charging / Discharging Current (A d.c.)	20.8 / 9.0	20.8 / 12.0	20.8 / 15.0	20.8 / 18.0
AC Output Data (On-grid)				
Rated Output Power (W)	6000	8000	10000	12000
Max. Output Apparent Power (VA)	6600	8800	11000	12000
Nominal Output Voltage (V a.c.)	230, L/N+PE			
Frequency (Hz)	50			

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Rated Output Current (A a.c.)	26.1	34.8	43.5	52.2
Max. Output Current (A a.c.)	32.1	42.8	53.5	64.2
Power Factor	0.8 leading to 0.8 lagging			
AC Input Data (On-grid)				
Nominal Voltage (V a.c.)	230, L/N+PE			
Max. Input Current (A a.c.)	72			
Frequency (Hz)	50			
Power Factor	0.8 leading to 0.8 lagging			
AC Output Data (Back-up)				
Nominal Output Power (W)	6000	8000	10000	12000
Nominal Output Voltage (V a.c.)	230, L/N+PE			
Nominal Output Voltage (V a.c.)	26.1	34.8	43.5	52.2
Max. Output Current (Off-Grid) (A a.c.)	32.1	42.8	53.5	64.2
Max. Output Current (On-Grid) (A a.c.)	72			
Frequency (Hz)	50			

Model	EF HD-P1-8K0-S2A	EF HD-P1-9K9-S2A	EF HD-P1-12K0-S2A
PV Input Data			
Max. Input Power (W)	16000	20000	24000
Input Voltage Range (V d.c.)	50-900		

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Full load MPPT Voltage Range (V d.c.)	500-810		
Max. Input Current (A d.c.)	16 * 3		
Max. Short Circuit Current (A d.c.)	20 * 3		
Number of Strings per MPPT	3		
Number of MPP Trackers	1		
Battery Input Data			
Battery Type	Li-Ion		
Nominal Battery Voltage (V d.c.)	800		
Max. Continuous Charging / Discharging Current (A d.c.)	20.8 / 12.0	20.8 / 15.0	20.8 / 18.0
AC Output Data (On-grid)			
Rated Output Power (W)	8000	9999	12000
Max. Output Apparent Power (VA)	8800	9999	12000
Nominal Output Voltage (V a.c.)	230, L/N+PE		
Frequency (Hz)	50		
Rated Output Current (A a.c.)	34.8	43.5	52.2
Max. Output Current (A a.c.)	42.8	53.5	63.0
Power Factor	0.8 leading to 0.8 lagging		
AC Input Data (On-grid)			
Nominal Voltage (V a.c.)	230, L/N+PE		

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Max. Input Current (A a.c.)	63		
Frequency (Hz)	50		
Power Factor	0.8 leading to 0.8 lagging		
AC Output Data (Back-up)			
Nominal Output Power (W)	8000	9999	12000
Nominal Output Voltage (V a.c.)	230, L/N+PE		
Nominal Output Voltage (V a.c.)	34.8	43.5	52.2
Max. Output Current (Off-Grid) (A a.c.)	42.8	53.5	64.2
Max. Output Current (On-Grid) (A a.c.)	72		
Frequency (Hz)	50		

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Interface protection settings according to EN 50549-1			
Parameter	Max. disconnection time	Min. operate time	Trip value
Undervoltage threshold stage 1 [27 <]	100s	0.1s (0.1 s steps)	Trip value Config. from 0.2 to 1 Un (0.01 Un steps)
Undervoltage threshold stage 2 [27 <<]	5s	0.1s (0.05 s steps)	Trip value Config. from 0.2 to 1 Un (0.01 Un steps)
Overvoltage threshold stage 1 [59 >]	100s	0.1s (0.1 s steps)	Trip value Config. from 1.0 to 1.2 Un (0.01 Un steps)
Overvoltage threshold stage 2 [59 >>]	5s	0.1s (0.05 s steps)	Trip value Config. from 1.0 to 1.3 Un (0.01 Un steps)
Overvoltage 10 min mean protection	Trip time Config ≤ 3s not adjustable Time delay setting = 0 ms		Trip value Config. from 1.0 to 1.15Un (0.01 Un steps)
Underfrequency threshold stage 1 [81 <]	100s	0.1s (0.1s steps)	Trip value Config. from 47.0 to 50.0Hz (0.1Hz steps)
Underfrequency threshold stage 2 [81 <<]	5s	0.1s (0.05 s steps)	Trip value Config. from 47.0 to 50.0Hz (0.1Hz steps)
Overfrequency threshold stage 1 [81 >]	100s	0.1s (0.1s steps)	Trip value Config. from 50.0 to 52.0Hz (0.1Hz steps)
Overfrequency threshold stage 2 [81 >>]	5s	0.1s (0.05 s steps)	Trip value Config. from 50.0 to 52.0Hz (0.1Hz steps)
Starting to and reconnection settings for voltage	50%-120% adjustable, 85%Un ≤ U ≤ 1.10Un default		
Starting to generate electrical power	47Hz – 52Hz adjustable, 49.5Hz ≤ U ≤ 50.1Hz default		
Reconnection settings for frequency	47Hz – 52Hz adjustable, 49.5Hz ≤ U ≤ 50.2Hz default		
Observation time	10s-600s adjustable, 60s default		
Active power increase gradient	6%-3000%/min adjustable, 10%/min default		
Permanent DC injection	0.5% of rated inverter output		
Loss of mains according to EN 62116	Within 2s		

According to Annex H of the standard EN 50549-1:2019+A1:2023, generating plants compliant with the clauses of this European Standard are considered to be compliant with the relevant Article of COMMISSION REGULATION (EU) 2016/631, provided that all settings as provided by the DSO and the responsible party are complied with.

Type approval for type A and B

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