CERTIFICATE OF CONFORMITY

Issued to:	EcoFlow Inc. RM 401,Plant #1, Runheng Industrial Zone, Fuyuanyi Road, Zhancheng Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong, China
For the product:	EcoFlow STREAM 5000
Trade name:	EF ECOFLOW or ECOFLOW
Type/Model:	EF-ST5K-HD-UK-3000-1, EF-ST5K-HD-EU-3000-1, EF-ST5K-HD-UK-2500-1, EF-ST5K-HD-EU-2500-1, EF-ST5K-HD-UK-1500-1, EF-ST5K-HD-EU-1500-1, EF-ST5K-HD-UK-800-1, EF-ST5K-HD-EU-800-1, EF-ST5K-HD-EU-790-1, EF-ST5K-HD-EU-600-1
Ratings:	See annex
Manufactured by:	EcoFlow Inc. RM 401,Plant #1, Runheng Industrial Zone, Fuyuanyi Road, Zhancheng Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong, China
Factory:	Huizhou Sunwoda Energy Technology Co., Ltd "Jiweidu" (Tuming Section), Zhenxing Street, Lixi Economic Union, Yuanzhou Town, Boluo County, Huizhou City, Guangdong, China
Requirements:	VDE-AR-N 4105:2026-03 DIN VDE V 0124-100:2020-06

Type of product certification scheme: Type 1a (Type approval)

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 4958222.51.

The examination has been carried out on one single specimen of the product. The Attestation does not include an assessment of the manufacturer's production. Conformity of this production with the specimen tested by DEKRA is not the responsibility of DEKRA.

This Test Certificate expires at the latest on 13 July 2031 or expires upon withdrawal of one of the above mentioned standards.

Shanghai, 13 July 2026 Number: 4958222.02COC

DEKRA Testing and Certification (Shanghai) Ltd.

Rosa Zhou
Certification Manager

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Model list and ratings						
Model	**EF-ST5K-HD-EU-3000-1**	**EF-ST5K-HD-EU-2500-1**	**EF-ST5K-HD-EU-1500-1**	**EF-ST5K-HD-EU-800-1**	**EF-ST5K-HD-EU-790-1**	**EF-ST5K-HD-EU-600-1**
PV terminal						
Max. Input Voltage [Vdc]	60					
Max. Input Current [Adc]	32 (per MPPT)					
Max. Isc [Adc]	40 (per MPPT)					
Max MPPT Input Power [W]	5000W (1250W per MPPT)					
Operation Voltage Range [Vdc]	15-60					
Grid terminal						
Normal Voltage [Vac]	230, L+N+PE					
Rated Frequency [Hz]	50/60					
Rated Output Current [A]	13.00	10.90	6.52	3.48	3.43	2.61
Rated Output Power [W]	3000	2500	1500	800	790	600
Max. Output Current [A]	13.00	10.90	6.52	3.48	3.43	2.61
Max. Output Power [W]	3000	2500	1500	800	790	600
Max. apparent Power [VA]	3000	2500	1500	800	790	600
Max. Input Current [A]	16.0					
Max. Input Power [W]	3600					
Power Factor	1 (-0.8~+0.8)					
AC outlet						
Normal Voltage [Vac]	230, L+N+PE					
Rated Frequency [Hz]	50/60					
Rated Output Current [A]	13					
Max. Output Current [A]	16					
Max. Output Power [W]	3000					
Max. Input Current [A]	3.48					
Max. Input Power [W]	800					
Power Factor	1 (-0.8~+0.8)					
Battery terminal						
Battery type	LiFePO4					
Battery Capacity	314Ah@16V=5024Wh					
Rated Voltage [Vdc]	50					
Operation Voltage Range [Vdc]	45-60					
Max. Charge Power [W]	4000					
Max. Discharge Power [W]	3000					
Max. Charge Current [Adc]	90					
Max. Discharge Current [Adc]	70					
General						
Ingress protection	IP65					
Dimension (L×W×H) [mm]	295 × 287 × 489					
Weight [kg]	44.6					
Ambient temperature range [°C]	-20 ~ +55 (Derating above 35 °C)					

Model list and ratings				
Model	**EF-ST5K-HD-UK-3000-1**	**EF-ST5K-HD-UK-2500-1**	**EF-ST5K-HD-UK-1500-1**	**EF-ST5K-HD-UK-800-1**
PV terminal				
Max. Input Voltage [Vdc]	60			
Max. Input Current [Adc]	32 (per MPPT)			
Max. Isc [Adc]	40 (per MPPT)			
Max MPPT Input Power [W]	5000W (1250W per MPPT)			
Operation Voltage Range [Vdc]	15-60			
Grid terminal				
Normal Voltage [Vac]	230, L+N+PE			
Rated Frequency [Hz]	50/60			
Rated Output Current [Aac]	13.00	10.90	6.52	3.48
Rated Output Power [W]	3000	2500	1500	800
Max. Output Current [Aac]	13.00	10.90	6.52	3.48
Max. Output Power [W]	3000	2500	1500	800
Max. apparent Power [VA]	3000	2500	1500	800
Max. Input Current [Aac]	13.0			
Max. Input Power [W]	3000			
Power Factor	1(-0.8~+0.8)			
AC outlet				
Normal Voltage [Vac]	230, L+N+PE			
Rated Frequency [Hz]	50/60			
Rated Output Current [Aac]	13			
Max. Output Current [Aac]	13			
Max. Output Power [W]	3000			
Max. Input Current [Aac]	3.48			
Max. Input Power [W]	800			
Power Factor	1(-0.8~+0.8)			
Battery terminal				
Battery type	LiFePO4			
Battery Capacity	314Ah@16V=5024Wh			
Rated Voltage [Vdc]	50			
Operation Voltage Range [Vdc]	45-60			
Max. Charge Power [W]	4000			
Max. Discharge Power [W]	3000			
Max. Charge Current [Adc]	90			
Max. Discharge Current [Adc]	70			
General				
Ingress protection	IP65			
Dimension (L×W×H) [mm]	295 × 287 × 489			
Weight [kg]	44.6			
Ambient temperature range [°C]	-20 ~ +55 (Derating above 35 °C)			

F.3 Unit certificate

Unit certificate		
Manufacturer / Address:	EcoFlow Inc. RM 401, Plant #1, Runheng Industrial Zone, Fuyuanyi Road, Zhancheng Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong, China	
Type of power generation unit:		
☒ Inverter	☐ Asynchronous generator	☐ Synchronous generator
☐ Regenerative DC charging device for electric vehicles	☐ Regenerative AC charging device for electric vehicles	☐ Regenerative system consisting of AC charging device and electric vehicle
	☐ Inverter of a regenerative AC-coupled electric vehicle	
☐ AC-coupled storage	☐ Fuel cell	☐ other
Assessment values	Max. active power P_{Emax}	3000 W / 2500 W / 1500 W / 800 W / 790 W / 600 W
	Max. apparent power S_{Emax}	3000 VA / 2500 VA / 1500 VA / 800 VA / 790 VA / 600 VA
	Rated voltage	230 V (W+N+PE)
	Rated current (AC) I_r	13.00 A / 10.90 A / 6.52 A / 3.48 A / 3.43 A / 2.61 A
	Initial short-circuit AC current I_k	26.8 A
Grid connection rule	VDE-AR-N 4105 “Generators connected to the low-voltage distribution network” Technical minimum requirements for connection and parallel operation of power generation systems connected to the low-voltage network	
Test requirement	DIN VDE V 0124-100 (VDE V 0124-100) “Network integration of power generation systems – Low voltage” Test requirements for power generation units intended for connection to and parallel operation on the low-voltage network	
Test report	4958222.51 from (2026-07-13)	
The above designated power generation unit meets the requirements of VDE-AR-N 4105.		

E.6 Certificate of the grid and system protection

Certificate of NA protection		
Manufacturer	EcoFlow Inc. RM 401, Plant #1, Runheng Industrial Zone, Fuyuanyi Road, Zhancheng Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong, China	
Type of NA protection	Integrated NA protection	
Central NA protection	☐	
Integrated NA protection	☒	Assigned to power generation unit of type: EF-ST5K-HD-UK-3000-1, EF-ST5K-HD-EU-3000-1, EF-ST5K-HD-UK-2500-1, EF-ST5K-HD-EU-2500-1, EF-ST5K-HD-UK-1500-1, EF-ST5K-HD-EU-1500-1, EF-ST5K-HD-UK-800-1, EF-ST5K-HD-EU-800-1, EF-ST5K-HD-EU-790-1, EF-ST5K-HD-EU-600-1
Grid connection rule	VDE-AR-N 4105 “Generators connected to the low-voltage distribution network” Technical minimum requirements for connection and parallel operation of power generation systems connected to the low-voltage network	
Test requirement	DIN VDE V 0124-100 (VDE V 0124-100) “Network integration of power generation systems – Low voltage” Test requirements for power generation units intended for connection to and parallel operation on the low-voltage network	
Test report	4958222.51 from (2026-07-13)	
The network and system protection designated above meets the requirements of VDE-AR-N 4105.		

E.7 Requirements for the test report for the NA protection

Extract from test report for NA protection “Determination of electrical properties”		Report No.: 4958222.51
Test report NA protection		
Type of NA protection:	Integrated NA protection	Other Manufacturer indications
Software version:	1.1.2.37	N/A
Manufacturer:	EcoFlow Inc. RM 401, Plant #1, Runheng Industrial Zone, Fuyuanyi Road, Zhancheng Community, Fuhai Street, Bao'an District, Shenzhen City, Guangdong, China	
Measuring period:	From 2026-06-01 to 2026-07-06	

Protection function	Inverter		
	Setting value	Tripping value	Tripping time NA protection*
Rise-in-voltage protection *U* >>	1.25 * U_n	L-N: 286.6 V	L-N: 149 ms
Rise-in-voltage protection *U* >	1.10 * U_n	1.10 * U_n, ≤ 100 ms**	
Voltage drop protection *U* <	0.8 * U_n	L-N: 183.1 V	L-N: 3.051 s
Voltage drop protection *U* <<	0.45 * U_n	L-N: 102.4 V	L-N: 344 ms
Frequency decrease protection *f* <	47.5 Hz	47.50 Hz	2.048 s
Frequency increase protection *f* >	51.5 Hz	51.51 Hz	5.055 s
Frequency increase protection f >>	52.6 Hz	52.60 Hz	131 ms

*: The tripping time includes the period from the limit value violation U/f until the tripping signal to the interface switch.

When planning the power generation system, the response time of the interface switch shall be added to the maximum time value obtained as indicated above.

The disconnection time (sum of tripping time of the NA protection plus response time of the interface switch) shall not exceed 200 ms.

**: Verification disconnection time of moving 10-min-average value. Disconnecting time as below:

(500.0/504.0/491.0) s (L-N from 600 s @ 100% U_n to 112% U_n)
Continuous operation (L-N from 600 s @ 100% U_n to 108% U_n)
(302.0/321.0/305.0) s (L-N from 600 s @ 106% U_n to 114% U_n)

☒ For integrated NA protection

Assigned to power generation unit type	EF-ST5K-HD-UK-3000-1, EF-ST5K-HD-EU-3000-1, EF-ST5K-HD-UK-2500-1, EF-ST5K-HD-EU-2500-1, EF-ST5K-HD-UK-1500-1, EF-ST5K-HD-EU-1500-1, EF-ST5K-HD-UK-800-1, EF-ST5K-HD-EU-800-1, EF-ST5K-HD-EU-790-1, EF-ST5K-HD-EU-600-1
Integrated interface switch type	Series-connected relays for all phase conductors each Relay type: SMIA-S-212DMG (20A)
Response time of interface switch for integrated NA protection	Release time: max. 15 ms
Verification of the entire functional chain “integrated NA protection – interface switch” has resulted in successful disconnection.	☒

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