

## VERIFICATION OF COMPLIANCE

No.: GZES2211022774PV01

Applicant: FOXESS CO.,LTD

No.939, Jinhai Third Road, New Airport Industry Area, Longwan

District, Wenzhou, Zhejiang, China

FOXESS CO.,LTD Manufacturer:

No.939, Jinhai Third Road, New Airport Industry Area, Longwan

District, Wenzhou, Zhejiang, China

**Product Name:** Rechargeable Li-ion Battery System

**Product Description:** Inverter used in PV system

Model No.: ECS2800-H2, ECS2800-H3, ECS2800-H4

ECS2800-H5, ECS2800-H6, ECS2800-H7

Trade Mark:

Rating: See page 2 to page 4

Protection against Electric Shock: Class I IP 65 Additional Information:

Software version: BMU: V1.5, IVU: V1.0, BCU: V1.6

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard: IEC 62477-1:2022

as shown in the

GZES221102277401 Test Report Number(s):

This Verification of Compliance has been granted to the applicant based on the results of tests, performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards.

Senior Technical Manager

2023-03-02

SGS-CSTC

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Other information added:

Rating:

The battery system consists of two different types of lithium-ion batteries:

- 1. CS is the battery module, and CM includes system controller(BMU, BCU, IVU) and battery module.
- 2.CM contains the controller of the entire system, so each system must have one CM.
  3.System consists of at least 1 CM+1 CS and up to 1 CM+6 CS, refer to the number of batteries in the following models list for details.

Battery							
Specifications for CS		Specifications for CM					
Model No.	CS2800	Model No.	CM2800				
Max. charge/discharge	48	Max. charge/discharge	48				
current (A)		current (A)					
Operating temperature	-10 ~55	Operating temperature	-10 ~55				
(°C)		(°C)					
Storage temperature	-10 ~ 35	Storage temperature	-10 ~ 35				
(°C)		(°C)					
Humidity	5 ~95%	Humidity	5 ~95%				
Normal voltage (V)	57.6	Normal voltage (V)	57.6				
Normal capacity (Ah)	48	Normal capacity (Ah)	48				
Normal energy (kWh)	2.76	Normal energy (kWh)	2.76				
Battery voltage range [V]	52.2-66.2	Battery voltage range [V]	52.2-66.2				
Max. Continuous	48/48	Max. Continuous	48/48				
discharge/charge current		discharge/charge current					
(A)		(A)					
(CC-CV) Standard	24	(CC-CV) Standard	24				
charging current (A)		charging current (A)					
Constant current and	3	Constant current and	3				
voltage charging cut-off		voltage charging cut-off					
current (A)		current (A)					
Peak discharge current	65	Peak discharge current	65				
(60s)		(60s)					
Dimensions (L*W*H)	570*380*172	Dimensions (L*W*H)	570*380*188				
(mm)		(mm)					
Weight (Kg)	31±1	Weight (Kg)	35±1				
Communication	CAN	Communication	CAN				
interfaces	OAI <b>V</b>	interfaces	O/AIN				



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No.:

## GZES2211022774PV01

Battery system						
Model or Type designation	ECS2800-H2	ECS2800-H3	ECS2800-H4			
Battery designation	IFpP/21/115/ 103/[(2P18S) 2S]M/-10+50/90	IFpP/21/115/ 103/[(2P18S) 3S]M/-10+50/90	IFpP/21/115/ 103/[(2P18S) 4S]M/-10+50/90			
The number of batteries	1CM+1CS	1CM+2CS	1CM+3CS			
Normal voltage (V)	115.2	172.8	230.4			
Normal capacity (Ah)	48					
Normal energy (kWh)	5.53	8.29	11.06			
Battery voltage range(V)	104.4-132.4	156.6-198.7	208.8-264.9			
Max. charge/discharge current (A)	48/48					
(CC-CV) Standard charging current (A)	24					
Constant current and constant voltage charging cut-off current (A)	3					
Peak discharge Current (60s) (A)	65					
Storage temperature (°C)	-10°C ~35°C					
Operating Temperature range (°C)	Charge: 0°C ~55°C /Discharge: -10°C ~55°C					
Discharge capacity (Ah)	-20±2°C @1C @75% /25±2°C @0.5C @100% /55±2°C @0.5C @100%					
Cycle life	≥6000 @25°C @ 70%SOH					
Ingress protection	IP65					
Protective class	Class 1					
Demensions (L x W x H) (mm)	570*380*366	570*380*494	570*380*622			
Weight(kg)	67.5	98.5	129.5			

David Guo Senior Technical Manager SGS-CSTC

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No.:

## GZES2211022774PV01

Battery system						
Model or Type designation	ECS2800-H5	ECS2800-H6	ECS2800-H7			
Battery designation	IFpP/21/115/	IFpP/21/115/	IFpP/21/115/			
	103/[(2P18S) 5S]M/-10+50/90	103/[(2P18S) 6S]M/-10+50/90	103/[(2P18S) 7S]M/-10+50/90			
The number of batteries	1CM+4CS	1CM+5CS	1CM+6CS			
Normal voltage (V)	288	345.6	403.2			
Normal capacity (Ah)	48					
Normal energy (kWh)	13.82	16.59	19.35			
Battery voltage range(V)	261-331.2	313.2-397.4	365.4-463.6			
Max. charge/discharge current (A)	48/48					
(CC-CV) Standard charging current (A)	24					
Constant current and constant voltage charging cut-off current (A)	3					
Peak discharge Current (60s) (A)	65					
Storage temperature (°C)	-10°C ~35°C					
Operating Temperature range (°C)	Charge: 0°C ~55°C /Discharge: -10°C ~55°C					
Discharge capacity (Ah)	-20±2°C @1C @75% /25±2°C @0.5C @100% /55±2°C @0.5C @100%					
Cycle life	≥6000 @25°C @ 70%SOH					
Ingress protection	IP65					
Protective class	Class 1					
Demensions (L x W x H) (mm)	570*380*750	570*380*878	570*380*1006			
Weight(kg)	160.5	191.5	222.5			

David Gud Senior Technical Manager SGS-CSTC

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