TÜVNORD

Attestation

of Conformity

This certifies that below described product(s) of the company:

Guangzhou Felicity Solar Technology Co., Ltd.
(Airport Baiyun)No.2, 4, 6, 8, 10 and 12 Donghua Huaye Road,
Renhe Town, Baiyun District, Guangzhou, Guangdong,
P. R. China

comply to the essential requirements of the following standards

Manufacturer and factory(-ies):	See Annex 1
Description of product(s) (details see Annex 2):	**Hybrid Inverter**
Certification program:	BOS-P-01 Rev. 01
Certification fundamental(s):	CEI 0-21: 2022-03 CEI 0-21; V1:2022-11 CEI 0-21; V2:2024-01 CEI 0-21; V2/EC:2024-03 CEI 0-21; V2/EC2:2025-02 See test report for detailed information.

This certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of TÜV NORD. The holder of this document may use it in connection with the related report(s).

Registration no.:	AOCPVP06067/25B-005
Report no.:	TRPVP06067/25B/001
File no.:	PVP06067/25B-001

Hangzhou, 2026-02-05

Certification Body - Renewable Energy

TÜV NORD (HANGZHOU) CO., LTD.
Room B409, Building 1, No. 9, Jiuhuan Road, Shangcheng District,
Hangzhou City, Zhejiang Province, 310019, P.R. China

Please also pay attention to the information stated overleaf.

Visit our database to verify the validity of this certificate.

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Annex 1

to certificate registration no. AOCPVP06067/25B-005

Type designation:	**IVGM50KHP3G2, IVGM40KHP3G2, IVGM30KHP3G2, IVGM29K9HP3G2, IVGM25KHP3G2**
Manufacturer:	**Guangzhou Felicity Solar Technology Co., Ltd.** (Airport Baiyun)No.2, 4, 6, 8, 10 and 12 Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou, Guangdong, P. R. China
Factory:	**Guangzhou Felicity Solar Technology Co., Ltd.** (Airport Baiyun)No.2, 4, 6, 8, 10 and 12 Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou, Guangdong, P. R. China
Type of equipment:	☒ Interface device ☒ Interface protection ☒ Static conversion device ☐ Rotary generation device Remark: The device is for plants of greater than 11.08kW.
Certification body:	**TÜV NORD (HANGZHOU) CO., LTD.** Room B409, Building 1, No. 9, Jiuhuan Road, Shangcheng District, Hangzhou City, Zhejiang Province, 310019, P.R. China Accredited by CNAS according to ISO/IEC 17065:2012, certificate no. CNAS C183-P.
Testing laboratory:	**Dongguan BALUN Testing Technology Co., Ltd.** Room 104/204/205, Building 1, No. 6, Industrial South Road, Songshan Lake District, Dongguan, Guangdong, China Accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701
Conclusion:	After verifying following documents, it is concluded that the product is in compliance with the requirements of CEI 0-21: 2022-03, CEI 0-21; V1:2022-11, CEI 0-21; V2:2024-01, CEI 0-21; V2/EC:2024-03, CEI 0-21; V2/EC2:2025-02: ☒ ISO 9001 certificate: Certificate no. 2070023Q10167R1M, issued by Guangdong Zhongzhijian Certification Co., Ltd. ☒ Test report of CEI 0-21: 2022-03, CEI 0-21; V1:2022-11, CEI 0-21; V2:2024-01, CEI 0-21; V2/EC:2024-03, CEI 0-21; V2/EC2:2025-02: Report no. BL-DG2560064-201, issued by Dongguan BALUN Testing Technology Co., Ltd., accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701

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Annex 2

to certificate registration no. AOCPVP06067/25B-005

Description of product(s):

Model types:	IVGM25KHP3G2	IVGM29K9HP3G2	IVGM30KHP3G2	IVGM40KHP3G2	IVGM50KHP3G2
General information					
Software version.....:	Master: V201, Slave: V101				
PV input					
Vmax PV [V d.c.].....:	1000				
Mpp voltage range [V d.c.].....:	150-850				
Isc PV [A d.c.] .....:	55+55	55+55+55		55+55+55+55	
Max. input current [A d.c.].....:	36+36	36+36+36		36+36+36+36	
Overvoltage category (OVC) .....:	II				
Grid parameters					
Rated output voltage [V a.c.] .....:	220/380, 230/400, 3L+N+PE				
Rated output frequency [Hz] .....:	50/60				
Rated output power [kW].....:	25.0	29.9	30.0	40.0	50.0
Max. apparent power [kVA].....:	27.5	29.9	33.0	44.0	55.0
Max. output current [A a.c.].....:	39.9	43.4	47.9	63.8	79.7

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Annex 2

to certificate registration no. AOCPVP06067/25B-005

Power factor cosφ [λ] .....:	0.8 leading to 0.8 lagging
Overvoltage category (OVC) .....:	III
Battery parameters	
Battery Type.....:	LFP(LiFePO4)
Voltage range[V d.c.]:	160-800
Max. Charge/ Discharge Current [Ad.c.].....:	50+50/50+50

Remark: The inverters listed above may be installed with the following batteries

Battery	
Model or Type designation	FLH48100UMG2
Manufacture	Felicity Solar
BMS model	BCU: 206-09-04, BMU: 208-07-07
Battery Type	LiFePO4
Energy [kWh]	5.12
Capacity [Ah]	100
Rated Voltage [Vdc]	51.2 (for single battery pack)
Max Charge Current [Adc]	100
Max Discharge Current [Adc]	100
Standard Charge/ Discharge Current [Adc]	50/50
Operating Temperature [°C]	-20 to 55
Operation Humidity	0 ~ 95 % (No condensation)
Nominal Operation Altitude [m]	<2000
IP Rating	IP20
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.	

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The inverters listed above may be installed with the following batteries:					
Battery					
Model of Battery	FLH48100UMG2				
BMS model	FHU48100				
Firmware version of BMS	V203				
Inverter with 4 Battery					
Model of Inverter	IVGM25KHP 3G2	IVGM29K9HP 3G2	IVGM30KH P3G2	IVGM40KH P3G2	IVGM50KH P3G2
Nominal Discharge Power PSN [kW]	10	10	10	10	10
Nominal Charge Power PCN [kW]	10	10	10	10	10
Maximum Discharge Power PSMAX [kW]	20	20	20	20	20
Maximum Charge Power PCMAX [kW]	20	20	20	20	20
Inverter with 8 Batteries					
Model of Inverter	IVGM25KHP 3G2	IVGM29K9HP 3G2	IVGM30KH P3G2	IVGM40KH P3G2	IVGM50KH P3G2
Nominal Discharge Power PSN [kW]	20	20	20	20	20
Nominal Charge Power PCN [kW]	20	20	20	20	20
Maximum Discharge Power PSMAX [kW]	25	29.9	30	40	40
Maximum Charge Power PCMAX [kW]	25	29.9	30	40	40
Inverter with 12 Batteries					
Model of Inverter	IVGM25KHP 3G2	IVGM29K9HP 3G2	IVGM30KH P3G2	IVGM40KH P3G2	IVGM50KH P3G2
Nominal Discharge Power PSN [kW]	25	29.9	30	30	30
Nominal Charge Power PCN [kW]	25	29.9	30	30	30
Maximum Discharge Power PSMAX [kW]	25	29.9	30	40	50
Maximum Charge Power PCMAX [kW]	25	29.9	30	40	50
Note: The batteries are not integrated into the inverter and must be installed according to the local regulations.					

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