Certificate of Conformity (COC)

Certificate Holder	:	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
Date of Original Issue	:	2025-12-18
Date of Last Revision	:	--
Date of Expiry	:	2028-12-17
Certificate Number	:	PCS-25-1251
Product	:	Hybrid Inverter
Ratings	:	See appendix on page 2
Brand/Trademark	:	Felicitysolar®
Model	:	IVGM25KHP3G2, IVGM29K9HP3G2, IVGM30KHP3G2, IVGM40KHP3G2, IVGM50KHP3G2
Test Laboratory	:	SGS-CSTC Standards Technical Services Co., Ltd. Suzhou Branch
Testing Report	:	SUEE250500013551
Test Standard	:	EN 50549-10:2022 and EN 50549-1:2019+A1:2023

This is to certify that the product has been tested and was found to comply with the requirements of the standard(s).
The above-mentioned product is certified according to the requirements of ISO/IEC 17065:2012.

The above-mentioned product is certified according to the standard EN 50549-1:2019+A1:2023 and is valid to be installed in generating of type plants B to be connected to a LV distribution network. The relation between this European Standard with the relevant Article of COMMISSION REGULATION (EU) 2016/631 (NC RfG) is considered as it is indicated in the annex H of the standard EN 50549-1:2019+A1:2023.

This certification ensures the compliance with specific deviations for interface protection according for **Sweden** which have been verified according to settings defined in section A.20 SE of the standard EN 50438:2013.

Christopher Hee
Certification Officer

SAC Accredited Certification Body
PD-2016-15

SGS Testing & Control Services Singapore Pte Ltd
30 Boon Lay Way #03-01 Singapore 609957

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APPENDIX

Certificate Number: PCS-25-1251

Model	IVGM25KHP3 G2	IVGM29K9HP 3G2	IVGM30KHP3 G2	IVGM40KHP3 G2	IVGM50KHP3 G2
Battery Input Data					
Battery Type	LFP (LiFePO4)				
Battery Voltage Range	160 ~ 800 Vd.c.				
Max. Charging Current	50+50 A				
Max. Discharging Current	50+50 A				
Number of battery input	2				
PV String Input Data					
Max. DC Input Power	40 kW	47.84 kW	48 kW	64 kW	80 kW
Max. DC Input Voltage	1000 Vd.c.				
Start-up Voltage	180 V d.c.				
Rated DC Input Voltage	600 V d.c.				
MPPT Voltage Range	150 ~ 850 V d.c.				
Full Load DC Voltage Range	555 ~ 850 Vd.c.	443 ~ 850 Vd.c.	444 ~ 850 Vd.c.		555 ~ 850 Vd.c.
PV Input Current	36+36 A	36+36+36 A		36+36+36+36 A	
Max. PV Isc	55+55 A	55+55+55 A		55+55+55+55 A	
No. of MPP Trackers	2	3		4	
AC Output Data					
Nominal Grid Voltage	230/400 V				
Nominal Grid Frequency	50/60 Hz				
Rated AC Output Power	25 kW	29.9 kW	30 kW	40 kW	50 kW
Max. AC Output Power	27.5 kW	29.9 kW	33 kW	44 kW	55 kW
Rated AC Output Current	36.3 A	43.4 A	43.5 A	58.0 A	72.5 A
Max. AC Output Current	39.9 A	43.4 A	47.9 A	63.8 A	79.7 A
Output Power Factor	0.8(leading) to 0.8(lagging)				
General Data					
Operating temperature range	-40 ℃ ~ +65 ℃ (＞50℃ derating)				
Protection degree	IP65				
Protective class	Class I				
Cooling method	Smart cooling				

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