

CERTIFICATE OF CONFORMITY

Issued to: 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, China

For the product: Hybrid Inverter

Trade name:  Felicity solar®
Manufacturer of solar inverters

Type/Model: IVGM3KLP3G2, IVGM4KLP3G2, IVGM5KLP3G2, IVGM6KLP3G2, IVGM8KLP3G2,
IVGM10KLP3G2, IVGM12KLP3G2

Ratings: See annex

Manufactured by: 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, China

Requirements: EN 50549-1:2019
EN 50549-1:2019/A1:2023
EN 50549-10:2022

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 4951348.50.

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 24 March 2031 or expires upon withdrawal of one of the above-mentioned standards.

Shanghai, 24 March 2026

Number: 4951348.01COC

DEKRA Testing and Certification (Shanghai) Ltd.



Rosa Zhou
Certification Manager

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ESA-CER-F021 v4.1

Model List and Ratings:						
Model		IVGM3KLP 3G2	IVGM4K LP3G2	IVGM5K LP3G2	IVGM6K LP3G2	IVGM8K LP3G2
Battery	Battery type	Li-ion/Lead-acid				
	Battery Voltage Range [Vdc]	40 - 60				
	Rated Battery Voltage [Vdc]	50				
	Max. charge/discharge current [Adc]	70	95	120	135	190
	Max. charge/discharge Power [kW]	3.0	4.0	5.0	6.0	8.0
PV input	Max. PV input Voltage [Vdc]	800				
	Rated PV input Voltage [Vdc]	550				
	MPPT Voltage Range [Vdc]	200 - 650				
	Max. PV input current [Adc]	20*2				
	Isc current [Adc]	30*2				
	Max. PV input power [kW]	4.5	6.0	7.5	9.0	12.0
AC terminal (On-grid)	Rated AC Voltage [Vac]	230/400V, 3W+N+PE				
	Rated Frequency [Hz]	50/60				
	Max. AC input current [Aac]	5.0	6.7	8.3	10.0	13.3
	Max. AC input power [kW]	3.3	4.4	5.5	6.6	8.8
	Rated AC output current [Aac]	4.3	5.8	7.2	8.7	11.6
	Max. AC output current [Aac]	4.8	6.4	7.9	9.6	12.8
	Rated AC output Power [kW]	3.0	4.0	5.0	6.0	8.0
	Max. AC output Apparent power [kVA]	3.3	4.4	5.5	6.6	8.8
	Power factor	0.8 leading to 0.8 lagging				
EPS output	Rated AC output Voltage [Vac]	230/400V, 3W+N+PE				
	Rated Frequency [Hz]	50/60				
	Rated AC output current [Aac]	4.3	5.8	7.2	8.7	11.6
	Max. AC output current [Aac]	4.8	6.4	7.9	9.6	12.8
	Rated AC output Power [kW]	3.0	4.0	5.0	6.0	8.0
	Max. AC output Apparent power [kVA]	3.3	4.4	5.5	6.6	8.8
	Power factor	0.8 leading to 0.8 lagging				
General	Type of inverter	Non-isolated				
	Ingress Protection	IP65				
	Operating Temperature Range [°C]	-40 to 60 (Derating above 45 °C)				

Model		IVGM10KLP3G2	IVGM12KLP3G2
Battery	Battery type	Li-ion/Lead-acid	
	Battery Voltage Range [Vdc]	40 - 60	
	Rated Battery Voltage [Vdc]	50	
	Max. charge/discharge current [Adc]	210	240
	Max. charge/discharge Power [kW]	10.0	12.0
PV input	Max. PV input Voltage [Vdc]	800	
	Rated PV input Voltage [Vdc]	550	
	MPPT Voltage Range [Vdc]	200 - 650	
	Max. PV input current [Adc]	26*2	
	Isc current [Adc]	39*2	
	Max. PV input power [kW]	15.0	18.0
AC terminal (On-grid)	Rated AC Voltage [Vac]	230/400V, 3W+N+PE	
	Rated Frequency [Hz]	50/60	
	Max. AC input current [Aac]	16.7	20.0
	Max. AC input power [kW]	11.0	13.2
	Rated AC output current [Aac]	14.5	17.4
	Max. AC output current [Aac]	15.9	19.1
	Rated AC output Power [kW]	10.0	12.0
	Max. AC output Apparent power [kVA]	11.0	13.2
	Power factor	0.8 leading to 0.8 lagging	
EPS output	Rated AC output Voltage [Vac]	230/400V, 3W+N+PE	
	Rated Frequency [Hz]	50/60	
	Rated AC output current [Aac]	14.5	17.4
	Max. AC output current [Aac]	15.9	19.1
	Rated AC output Power [kW]	10.0	12.0
	Max. AC output Apparent power [kVA]	11.0	13.2
	Power factor	0.8 leading to 0.8 lagging	
General	Type of inverter	Non-isolated	
	Ingress Protection	IP65	
	Operating Temperature Range [°C]	-40 to 60 (Derating above 45 °C)	

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