

# 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: 

Type/Model: IVGM10KLP3G1, IVGM12KLP3G1, IVGM14KLP3G1, IVGM15KLP3G1,  
IVGM16KLP3G1, IVGM18KLP3G1, IVGM20KLP3G1

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. 4945937.50.

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 29 December 2030 or expires upon withdrawal of one of the above-mentioned standards.

Shanghai, 29 December 2025

Number: 4945937.01COC

DEKRA Testing and Certification (Shanghai) Ltd.



Rosa Zhou  
Certification Manager

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ESA-CER-F021 v4.1

**Ratings of the testing Hybrid Inverter:**

Model List and Ratings:						
Model		IVGM 10KLP3 G1	IVGM 12KLP3 G1	IVGM 14KLP3 G1	IVGM 15KLP3 G1	IVGM 16KLP3 G1
Battery	Battery type	Li-ion/Lead-acid				
	Battery Voltage Range [Vdc]	40 - 60				
	Rated Battery Voltage [Vdc]	50	50	50	50	50
	Max. charge/discharge current [Adc]	210	240	260	280	300
	Max. charge/discharge Power [kW]	10	12	14	15	16
PV input	Max. PV input Voltage [Vdc]	800				
	Rated PV input Voltage [Vdc]	550				
	MPPT Voltage Range [Vdc]	160 - 650				
	Max. PV input current [Adc]	26A*2		36A*2		
	Isc current [Adc]	39A*2		54A*2		
	Max. PV input power [kW]	15.0	18.0	22.4	24.0	25.6
AC terminal (On-grid)	Rated AC Voltage [Vac]	220/380, 230/400V, 3W+N+PE				
	Rated Frequency [Hz]	50/60				
	Max. AC input current [Aac]	16.7/ 16.0	20.0/ 19.2	23.4 /22.4	25.0/ 24.0	26.7/ 25.6
	Max. AC input Power [kW]	11.0	13.2	15.4	16.5	17.6
	Rated AC output current [Aac]	15.2/ 14.5	18.2/ 17.4	21.3/ 20.3	22.8/ 21.8	24.3/ 23.2
	Max. AC output current [Aac]	16.7/ 16.0	20.0/ 19.2	23.4/ 22.4	25.0/ 24.0	26.7/ 25.6
	Rated AC output Power [kW]	10.0	12.0	14.0	15.0	16.0
	Max. AC output Apparent power [kVA]	11.0	13.2	15.4	16.5	17.6
	Power factor	0.8 leading to 0.8 lagging				
	EPS output	Rated AC output Voltage [Vac]	220/380, 230/400V, 3W+N+PE			
Rated Frequency [Hz]		50/60				
Rated AC output current [Aac]		15.2/ 14.5	18.2/ 17.4	21.3/ 20.3	22.8/ 21.8	24.3/ 23.2
Max. AC output current [Aac]		16.7/ 16.0	20.0/ 19.2	23.4/ 22.4	25.0/ 24.0	26.7/ 25.6
Rated AC output Power [kW]		10.0	12.0	14.0	15.0	16.0

	Max. AC output Apparent power [kVA]	11.0	13.2	15.4	16.5	17.6
	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)				
	Net Weight [kg]	48.7				
	Size W×H×D [mm]	750*880*278				

Model		IVGM18KLP3G1	IVGM20KLP3G1
Battery	Battery type	Li-ion/Lead-acid	
	Battery Voltage Range [Vdc]	40 - 60	
	Rated Battery Voltage [Vdc]	50	50
	Max. charge/discharge current [Adc]	330	350
	Max. charge/discharge Power [kW]	18	20
PV input	Max. PV input Voltage [Vdc]	800	
	Rated PV input Voltage [Vdc]	550	
	MPPT Voltage Range [Vdc]	160 - 650	
	Max. PV input current [Adc]	36A*2	
	Isc current [Adc]	54A*2	
	Max. PV input power [kW]	28.8	32.0
AC terminal (On-grid)	Rated AC Voltage [Vac]	220/380, 230/400V, 3W+N+PE	
	Rated Frequency [Hz]	50/60	
	Max. AC input current [Aac]	30.0/28.7	33.4/31.9
	Max. AC input Power [kW]	19.8	22.0
	Rated AC output current [Aac]	27.3/26.1	30.4/29.0
	Max. AC output current [Aac]	30.0/28.7	33.4/31.9
	Rated AC output Power [kW]	18.0	20.0
	Max. AC output Apparent power [kVA]	19.8	22.0
	Power factor	0.8 leading to 0.8 lagging	
EPS output	Rated AC output Voltage [Vac]	220/380, 230/400V, 3W+N+PE	
	Rated Frequency [Hz]	50/60	
	Rated AC output current [Aac]	27.3/26.1	30.4/29.0
	Max. AC output current [Aac]	30.0/28.7	33.4/31.9

	Rated AC output Power [kW]	18.0	20.0
	Max. AC output Apparent power [kVA]	19.8	22.0
	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)	
	Net Weight [kg]	48.7	
	Size W×H×D [mm]	750*880*278	

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