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:	Felicitysolar®
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
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, China
Requirements:	EIFS 2018:2 (Type A) EN 50549-1:2019 EN 50549-1:2019/A1:2023 EN 50549-10:2022

Type of product certification scheme: Type 1a (Type approval)

This Test Certificate is granted on account of an examination by DEKRA, the results of which are laid down in a confidential file no. 4958692.50.

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 6 November 2031 or expires upon withdrawal of one of the above mentioned standards.

Shanghai, 6 November 2026 Number: 4958692.01COC

DEKRA Testing and Certification (Shanghai) Ltd.

Rosa Zhou
Certification Manager

© Integral publication of this certificate and adjoining reports is allowed

IAS ACCREDITED Product Certification Agency
PCA-141

DEKRA Testing and Certification (Shanghai) Ltd.
No.250, Jiangchangsan Road, Jing'an District, Shanghai, 200436 People's Republic of China
T +86 21 6056 7600 F +86 21 6056 7555 www.dekra-product-safety.com

Model List and Ratings:						
Model		**IVGM 10KLP3G1**	**IVGM 12KLP3G1**	**IVGM 14KLP3G1**	**IVGM 15KLP3G1**	**IVGM 16KLP3G1**
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, 3L+N+PE				
	Rated Frequency [Hz]	50/60				
	Max. AC input current [Aac]	16.7/16	20/19.2	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, 3L+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 [ºC]	-40 to 60 (Derating above 45 ºC)				

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, 3L+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, 3L+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 [ºC]	-40 to 60 (Derating above 45 ºC)	

--- End ---