CERTIFICATE

Issued to:
Applicant:
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

Licensee:
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

Product	:	Hybrid Inverter
Trade name(s)	:	felicitysolar
Type(s)/model(s)	:	IVGM10KLP3G1, IVGM12KLP3G1, IVGM14KLP3G1, IVGM15KLP3G1, IVGM16KLP3G1, IVGM18KLP3G1 and IVGM20KLP3G1

The product and any acceptable variation thereof as specified in the Annex to this certificate and the documents referred to therein.

DEKRA hereby declares that the above-mentioned product has been certified based on:
- a type test according to VDE-AR-N 4105:2018 and DIN VDE V 0124-100:2020
- an inspection of the factory location according to CENELEC Operational Document CIG 021
- a DEKRA certification agreement with the number 6073845

DEKRA hereby grants the right to use the DEKRA Mark.

The DEKRA Mark may be applied to the product as specified in this certificate for the duration and under the conditions of the DEKRA Mark certification agreement.

This certificate is issued on 18 March 2026 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 35-173034

DEKRA Certification B.V.

B.T.M. Holtus
Managing Director

Rosa Zhou
Certification Manager

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PRODUCTS
RvA C 001

DEKRA

35-173034

DEKRA Mark is the new KEMA-KEUR
The DEKRA Mark certificate for this product is to all intents and purposes equivalent to a KEMA-KEUR certificate, the other certification mark used by DEKRA and should be valued and used as such. DEKRA Mark is gradually replacing KEMA-KEUR.
For more information please check: Introducing DEKRA Mark

SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product	:	Hybrid Inverter
Trade name(s)	:	felicitysolar
Type(s)/model(s)	:	IVGM10KLP3G1, IVGM12KLP3G1, IVGM14KLP3G1, IVGM15KLP3G1, IVGM16KLP3G1, IVGM18KLP3G1 and IVGM20KLP3G1
Battery Voltage Range	:	40 - 60 Vdc
Rated Battery Voltage	:	50 Vdc
Max. PV input Voltage	:	800 Vdc
Rated PV input Voltage	:	550 Vdc
MPPT Voltage Range	:	160 - 650 Vdc
Rated AC Voltage	:	220/380 Vac, 230/400V, 3W+N+PE
Rated Frequency	:	50/60 Hz
Power factor	:	0.8 leading to 0.8 lagging

Product data – type IVGM10KLP3G1

Max. charge/discharge current	:	210 Adc
Max. charge/discharge Power	:	10 kW
Max. PV input current	:	26*2 Adc
Isc current	:	39*2 Adc
Max. PV input power	:	15.0 kW
Max. AC input current	:	16.7/16 Aac
Max. AC input Power	:	11.0 kW
Rated AC output current	:	15.2/14.5 Aac
Max. AC output current	:	16.7/16.0 Aac
Rated AC output Power	:	10.0 kW
Max. AC output Apparent power	:	11.0 kVA

Product data – type IVGM12KLP3G1

Max. charge/discharge current	:	240 Adc
Max. charge/discharge Power	:	12 kW
Max. PV input current	:	26*2 Adc
Isc current	:	39*2 Adc
Max. PV input power	:	18.0 kW
Max. AC input current	:	20/19.2 Aac
Max. AC input Power	:	13.2 kW
Rated AC output current	:	18.2/17.4 Aac
Max. AC output current	:	20.0/19.2 Aac
Rated AC output Power	:	12.0 kW
Max. AC output Apparent power	:	13.2 kVA

Product data – type IVGM14KLP3G1

Max. charge/discharge current	:	260 Adc
Max. charge/discharge Power	:	14 kW
Max. PV input current	:	36*2 Adc
Isc current	:	54*2 Adc
Max. PV input power	:	22.4 kW

Max. AC input current	:	23.4/22.4 Aac
Max. AC input Power	:	15.4 kW
Rated AC output current	:	21.3/20.3 Aac
Max. AC output current	:	23.4/22.4 Aac
Rated AC output Power	:	14.0 kW
Max. AC output Apparent power	:	15.4 kVA

Product data – type IVGM15KLP3G1

Max. charge/discharge current	:	280 Adc
Max. charge/discharge Power	:	15 kW
Max. PV input current	:	36*2 Adc
Isc current	:	54*2 Adc
Max. PV input power	:	24.0 kW
Max. AC input current	:	25.0/24.0 Aac
Max. AC input Power	:	16.5 kW
Rated AC output current	:	22.8/21.8 Aac
Max. AC output current	:	25.0/24.0 Aac
Rated AC output Power	:	15.0 kW
Max. AC output Apparent power	:	16.5 kVA

Product data – type IVGM16KLP3G1

Max. charge/discharge current	:	300 Adc
Max. charge/discharge Power	:	16 kW
Max. PV input current	:	36*2 Adc
Isc current	:	54*2 Adc
Max. PV input power	:	25.6 kW
Max. AC input current	:	26.7/25.6 Aac
Max. AC input Power	:	17.6 kW
Rated AC output current	:	24.3/23.2 Aac
Max. AC output current	:	26.7/25.6 Aac
Rated AC output Power	:	16.0 kW
Max. AC output Apparent power	:	17.6 kVA

Product data – type IVGM18KLP3G1

Max. charge/discharge current	:	330 Adc
Max. charge/discharge Power	:	18 kW
Max. PV input current	:	36*2 Adc
Isc current	:	54*2 Adc
Max. PV input power	:	28.8 kW
Max. AC input current	:	30.0/28.7 Aac
Max. AC input Power	:	19.8 kW
Rated AC output current	:	27.3/26.1 Aac
Max. AC output current	:	30.0/28.7 Aac
Rated AC output Power	:	18.0 kW
Max. AC output Apparent power	:	19.8 kVA

Product data – type IVGM20KLP3G1

Max. charge/discharge current	:	350 Adc
Max. charge/discharge Power	:	20 kW
Max. PV input current	:	36*2 Adc
Isc current	:	54*2 Adc
Max. PV input power	:	32.0 kW
Max. AC input current	:	33.4/31.9 Aac
Max. AC input Power	:	22.0 kW

Rated AC output current	:	30.4/29.0 Aac
Max. AC output current	:	33.4/31.9 Aac
Rated AC output Power	:	20.0 kW
Max. AC output Apparent power	:	22.0 kVA

TESTS

Test requirements
VDE-AR-N 4105:2018
DIN VDE V 0124-100:2020

Test result
The test results are documented in DEKRA test file 4947150.50.

Conclusion
The examination has confirmed that all requirements were met.

Factory location
Guangzhou Felicity Solar Technology Co., Ltd.
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Trade name : felicitysolar stands for felicitysolar®