

## VERIFICATION of Conformity EU Council Directive 2014/30/EU Electromagnetic Compatibility

<b>Verification No.</b>	: AT1811C505758126
<b>Report No.</b>	: 1811C50575812601
<b>Applicant</b>	: Guangzhou Felicity Solar Technology Co.,Ltd
<b>Address</b>	: (Airport Baiyun)No.2, 4, 6, 8, 10 and 12 Donghua Huaye Road, Renhe Town, Baiyun District, Guangzhou, Guangdong, P. R. China
<b>Product Name</b>	: Hybrid Inverter
<b>Date</b>	: 2025-12-11
<b>Model No.</b>	: IVGM50KHP3G2, IVGM40KHP3G2, IVGM30KHP3G2, IVGM29K9HP3G2, IVGM25KHP3G2
<b>Trade Mark</b>	:  <small>Make life full of hope</small>
<b>Rating</b>	: See Page 2
<b>Test Standards</b>	: EN IEC 61000-6-4: 2019 EN 61000-3-12:2011+A1:2019 EN IEC 61000-3-11:2019 EN IEC 61000-6-2: 2019

The Verification of conformity is based on an evaluation of a sample of the above-mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex II of Council Directive 2014/30/EU, in its latest amended version, referred to EMC Directive. The Verification does not imply assessment of the production and does not permit the use of Lab's logo. The applicant of the Verification is authorized to use this Verification in connection with EU declaration of conformity to Article 15 of the Directive.

**Certified by**



**Hugo chen**



The CE Marking may only be used if all relevant and effective EU Directives are complied with



Shenzhen Anbotek Compliance Laboratory Limited  
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Verification No. : AT1811C505758126

Report No. : 1811C50575812601

Attachment:

Rating:

Felicitysolar® Model: 300 Watt of Input	
<b>IVGM30KHP3G2</b>	
Product Type	Hybrid Inverter
Protection Degree	IP65
Overvoltage-category	DC II, AC III
Ambient Temperature	-40°C~60°C, >50°C Derating
Warranty	10 years
<b>Battery Input Data</b>	
Battery Voltage Range	160~800Vd.c.
Max. Charging Current	50+50(A)
Max. Discharging Current	50+50(A)
<b>PV String Input Data</b>	
Max. DC Input Power	48 kW
Max. DC Input Voltage	1000Vd.c.
Min. DC Input Voltage	150Vd.c.
MPPT Range	150~850Vd.c.
Full Load DC Voltage Range	444~850Vd.c.
PV Input Current	36+36+36(A)
Max. PV Isc	55+55+55(A)
<b>AC Input/Output Data</b>	
Rated AC Input/Output Power	30 kW
Max. AC Input/Output Power	33 kW
AC Input/Output Rated Current	43.5 A
Max. AC Input/Output Current	47.8 A
Rated AC Voltage	220/380/230/400 Vac(-20%~+15%)
AC Wiring Mode	3L+N+PE
Rated AC Frequency	50/60 Hz(45~65Hz/55~65Hz)
Power Factor	0.8 (leading) to 0.8 (lagging)
<b>Efficiency</b>	
Max. Efficiency	97.80%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%

**CAUTION:**

- High Voltage, warning electric shock
- Keep the equipment well ventilated
- The capacitors store hazardous energy. Do not touch while working!

**Manufacturer:** Guangzhou Felicity Solar Technology Co., Ltd.  
**Address:** (Airport Baiyun) No.2, 4, 6, 8, 10 and 12 Donghua Huayue Road, Renhe Town, Baiyun District, Guangzhou, Guangdong, P. R. China

Felicitysolar® Model: 50 Watt of Input	
<b>IVGM50KHP3G2</b>	
Product Type	Hybrid Inverter
Protection Degree	IP65
Overvoltage-category	DC II, AC III
Ambient Temperature	-40°C~60°C, >50°C Derating
Warranty	10 years
<b>Battery Input Data</b>	
Battery Voltage Range	160~800Vd.c.
Max. Charging Current	50+50(A)
Max. Discharging Current	50+50(A)
<b>PV String Input Data</b>	
Max. DC Input Power	80 kW
Max. DC Input Voltage	1000Vd.c.
Min. DC Input Voltage	150Vd.c.
MPPT Range	150~850Vd.c.
Full Load DC Voltage Range	555~850Vd.c.
PV Input Current	36+36+36(A)
Max. PV Isc	55+55+55(A)
<b>AC Input/Output Data</b>	
Rated AC Input/Output Power	50 kW
Max. AC Input/Output Power	55 kW
AC Input/Output Rated Current	72.5 A
Max. AC Input/Output Current	79.7 A
Rated AC Voltage	220/380/230/400 Vac(-20%~+15%)
AC Wiring Mode	3L+N+PE
Rated AC Frequency	50/60 Hz(45~65Hz/55~65Hz)
Power Factor	0.8 (leading) to 0.8 (lagging)
<b>Efficiency</b>	
Max. Efficiency	97.50%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%

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Felicitysolar® Model: 90 Watt of Input	
<b>IVGM29K9HP3G2</b>	
Product Type	Hybrid Inverter
Protection Degree	IP65
Overvoltage-category	DC II, AC III
Ambient Temperature	-40°C~60°C, >50°C Derating
Warranty	10 years
<b>Battery Input Data</b>	
Battery Voltage Range	160~800Vd.c.
Max. Charging Current	50+50(A)
Max. Discharging Current	50+50(A)
<b>PV String Input Data</b>	
Max. DC Input Power	47.84 kW
Max. DC Input Voltage	1000Vd.c.
Min. DC Input Voltage	150Vd.c.
MPPT Range	150~850Vd.c.
Full Load DC Voltage Range	443~850Vd.c.
PV Input Current	36+36+36(A)
Max. PV Isc	55+55+55(A)
<b>AC Input/Output Data</b>	
Rated AC Input/Output Power	29.9 kW
Max. AC Input/Output Power	29.9 kW
AC Input/Output Rated Current	43.4 A
Max. AC Input/Output Current	43.4 A
Rated AC Voltage	220/380/230/400 Vac(-20%~+15%)
AC Wiring Mode	3L+N+PE
Rated AC Frequency	50/60 Hz(45~65Hz/55~65Hz)
Power Factor	0.8 (leading) to 0.8 (lagging)
<b>Efficiency</b>	
Max. Efficiency	97.50%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%

**CAUTION:**

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<b>IVGM40KHP3G2</b>	
Product Type	Hybrid Inverter
Protection Degree	IP65
Overvoltage-category	DC II, AC III
Ambient Temperature	-40°C-60°C,>50°C Derating
Warranty	10 years
<b>Battery Input Data</b>	
Battery Voltage Range	160-800Vd.c.
Max. Charging Current	50+50(A)
Max. Discharging Current	50+50(A)
<b>PV String Input Data</b>	
Max. DC Input Power	64 kW
Max. DC Input Voltage	1000Vd.c.
Min. DC Input Voltage	150Vd.c.
MPPT Range	150-850Vd.c.
Full Load DC Voltage Range	444-850Vd.c.
PV Input Current	36+36+36(A)
Max. PV Isc	55+55+55(A)
<b>AC Input/Output Data</b>	
Rated AC Input/Output Power	40 kW
Max. AC Input/Output Power	44 kW
AC Input/Output Rated Current	58 A
Max. AC Input/Output Current	63.8 A
Rated AC Voltage	220/230, 230/400 Vac(-20%~+15%)
AC Wiring Mode	3L-N-PE
Rated AC Frequency	50/60 Hz(45-55Hz/55-65Hz)
Power Factor	0.8 (leading) to 0.8 (lagging)
<b>Efficiency</b>	
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%
	
<p><b>CAUTION:</b></p> <ul style="list-style-type: none"> <li>• High Voltage, warning electric shock</li> <li>• Keep the equipment well ventilated</li> <li>• The capacitors store hazardous energy. Do not touch while working!</li> </ul>	
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<b>IVGM25KHP3G2</b>	
Product Type	Hybrid Inverter
Protection Degree	IP65
Overvoltage-category	DC II, AC III
Ambient Temperature	-40°C-60°C,>50°C Derating
Warranty	10 years
<b>Battery Input Data</b>	
Battery Voltage Range	160-800Vd.c.
Max. Charging Current	50+50(A)
Max. Discharging Current	50+50(A)
<b>PV String Input Data</b>	
Max. DC Input Power	40 kW
Max. DC Input Voltage	1000Vd.c.
Min. DC Input Voltage	150Vd.c.
MPPT Range	150-850Vd.c.
Full Load DC Voltage Range	555-850Vd.c.
PV Input Current	36+36(A)
Max. PV Isc	55+55(A)
<b>AC Input/Output Data</b>	
Rated AC Input/Output Power	25 kW
Max. AC Input/Output Power	27.5kW
AC Input/Output Rated Current	36.3 A
Max. AC Input/Output Current	39.8 A
Rated AC Voltage	220/230, 230/400 Vac(-20%~+15%)
AC Wiring Mode	3L-N-PE
Rated AC Frequency	50/60 Hz(45-55Hz/55-65Hz)
Power Factor	0.8 (leading) to 0.8 (lagging)
<b>Efficiency</b>	
Max. Efficiency	97.60%
Euro Efficiency	97.00%
MPPT Efficiency	99.90%
	
<p><b>CAUTION:</b></p> <ul style="list-style-type: none"> <li>• High Voltage, warning electric shock</li> <li>• Keep the equipment well ventilated</li> <li>• The capacitors store hazardous energy. Do not touch while working!</li> </ul>	
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