



Ref. Certif. No.

SE-114787

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

CB TEST CERTIFICATE

Product

Hybrid Inverter

Name and address of the applicant

Shenzhen Growatt New Energy Co., Ltd
4-13/F, Building A, Sino-German(Europe) Industrial Park,
Hangcheng Ave, Bao'an District, Shenzhen
CHINA

Name and address of the manufacturer

Same as applicant

Name and address of the factory

Huizhou Growatt Smart Energy Co., Ltd.
No. 4-6 Plant, No.5 Xingju West Road, Dongjiang Science
and Technology Park, Dongxing Area, Zhongkai High-tech
Zone, Huizhou, Guangdong
CHINA

Note: When more than one factory, please report on page 2

Additional Information on page 2

Ratings and principal characteristics

PV input: max 1100 d.c.V or 550 d.c.V, Isc 50 A*3 or 4
AC input/output: 230/400 a.c. V or 127/220 a.c. V, 50/60 Hz
Battery: 200-900 d.c.V or 160-470 d.c.V, 55 A*2 or 3
General: Class I, IP66, -30°C - +60°C

Trademark / Brand (if any)

GROWATT

Customer's Testing Facility (CTF) Stage used

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Model / Type Ref.

See page 2

Additional information (if necessary may also be reported on page 2)

Additional Information on page 2-5

A sample of the product was tested and found to be in conformity with

IEC 62109-1:2010
IEC 62109-2:2011
IEC 62477-1:2022

As shown in the Test Report Ref. No. which forms part of this Certificate

240419014GZU-004, 240419014GZU-005,
240419014GZU-006

This CB Test Certificate is issued by the National Certification Body

Intertek Semko AB
Torshamnsgatan 43
Box 1103
SE-164 22 Kista, Sweden

Date: 10 September, 2024

intertek

Signature:

Anneli Averland Johansson

Model / Type Ref.

WIT 29.9K-XHU2, WIT 30K-XHU2, WIT 36K-XHU2, WIT 29.9K-XHU, WIT 30K-XHU, WIT 36K-XHU, WIT 40K-XHU, WIT 50K-XHU, WIT 12K-XHU L2, WIT 15K-XHU L2, WIT 17K-XHU L2, WIT 20K-XHU L2, WIT 25K-XHU L2, WIT 30K-XHU L2

Additional information

Model	WIT 29.9K-XHU	WIT 30K-XHU	WIT 36K-XHU	WIT 40K-XHU	WIT 50K-XHU
Max. PV voltage	1100 d.c. V				
PV voltage range	180 – 1000 d.c. V				
PV Isc	50 A*4				
PV max. input current	40 A*4				
AC input/output data					
Nominal input power	59800 W	60000 W	72000 W	80000 W	100000 W
Nominal output power	29900 W	30000 W	36000 W	40000 W	50000 W
Max. input apparent power	59800 VA	66000 VA	79200 VA	88000 VA	110000 VA
Max. output apparent power	29900 VA	33000 VA	39600 VA	44000 VA	55000 VA
Nominal voltage	230/400 a.c. V				
Max. input/output current	90.6/45.3 A	100/50 A	120/60 A	133.3/66.7 A	166.7/83.3 A
Nominal frequency	50/60 Hz				
Power factor range	1 leading ~ 1 lagging				
Load					
Nominal AC output power	29900 W	30000 W	36000 W	40000 W	50000 W
Nominal AC output voltage	230/400 a.c. V				
Nominal AC output frequency	50/60 Hz				
Battery data					
Battery voltage range	200-900 d.c. V				
Max. charging and discharging current	55 A*3				
Type of battery	Lithium				
Safety level	Class I				
Ingress protection	IP66				
Operating ambient temperature	-30°C - +60°C				

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Model	WIT 29.9K-XHU2	WIT 30K-XHU2	WIT 36K-XHU2
Max. PV voltage	1100 d.c. V		
PV voltage range	180 – 1000 d.c. V		
PV Isc	50 A*3		
PV max. input current	40 A*3		
AC input/output data			
Nominal input power	59800 W	60000 W	72000 W
Nominal output power	29900 W	30000 W	36000 W
Max. input apparent power	59800 VA	66000 VA	79200 VA
Max. output apparent power	29900 VA	33000 VA	39600 VA
Nominal voltage	230/400 a.c. V		
Max. input/output current	90.6/45.3 A	100/50 A	120/60 A
Nominal frequency	50/60 Hz		
Power factor range	1 leading ~ 1 lagging		
Load			
Nominal AC output power	29900 W	30000 W	36000 W
Nominal AC output voltage	230/400 a.c. V		
Nominal AC output frequency	50/60 Hz		
Battery data			
Battery voltage range	200-900 Vd.c.		
Max. charging and discharging current	55 A*2		
Type of battery	Lithium		
Safety level	Class I		
Ingress protection	IP66		
Operating ambient temperature	-30°C - +60°C		

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Model	WIT 12K-XHU L2	WIT 15K-XHU L2	WIT 17K-XHU L2
Max. PV voltage	550 d.c. V		
PV voltage range	160 – 500 d.c. V		
PV Isc	50 A*3		
PV max. input current	40 A*3		
AC input/output data			
Nominal input power	24000 W	30000 W	34000 W
Nominal output power	12000 W	15000 W	17000 W
Max. input apparent power	26400 VA	33000 VA	37400 VA
Max. output apparent power	13200 VA	16500 VA	18700 VA
Nominal voltage	3W/N/PE or 3W/PE, 127/220 a.c. V		
Max. input/output current	69.3/34.6 A	86.6/43.3 A	98.2/49.1 A
Nominal frequency	50/60 Hz		
Power factor range	1 leading ~ 1 lagging		
Load			
Nominal AC output power	12000 W	15000 W	17000 W
Nominal AC output voltage	3W/N/PE or 3W/PE, 127/220 a.c. V		
Nominal AC output frequency	50/60 Hz		
Generator Input			
Nominal AC power	12000W	15000W	17000W
Max. current	31.5A	39.4A	44.6A
Nominal AC output voltage	3W/N/PE or 3W/PE, 127/220 a.c. V		
Nominal AC output frequency	50/60 Hz		
Battery data			
Battery voltage range	160-470 d.c. V		
Max. charging and discharging current	55 A*3		
Type of battery	Lithium		
Safety level	Class I		
Ingress protection	IP66		
Operating ambient temperature	-30°C - +60°C		

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Model	WIT 20K-XHU L2	WIT 25K-XHU L2	WIT 30K-XHU L2
Max. PV voltage	550 d.c. V		
PV voltage range	160 – 500 d.c. V		
PV Isc	50 A*4		
PV max. input current	40 A*4		
AC input/output data			
Nominal input power	40000 W	50000 W	60000 W
Nominal output power	20000 W	25000 W	30000 W
Max. input apparent power	44000 VA	55000 VA	66000 VA
Max. output apparent power	22000 VA	27500 VA	33000 VA
Nominal voltage	3W/N/PE or 3W/PE, 127/220 a.c. V		
Max. input/output current	115.5/57.7A	144.4/72.2 A	173.2/86.6 A
Nominal frequency	50/60 Hz		
Power factor range	1 leading ~ 1 lagging		
Load			
Nominal AC output power	20000 W	25000 W	30000 W
Nominal AC output voltage	3W/N/PE or 3W/PE, 127/220 a.c. V		
Nominal AC output frequency	50/60 Hz		
Generator Input			
Nominal AC power	20000W	25000W	30000W
Max. current	52.5A	65.6A	78.7A
Nominal AC output voltage	3W/N/PE or 3W/PE, 127/220 a.c. V		
Nominal AC output frequency	50/60 Hz		
Battery data			
Battery voltage range	160-470 d.c. V		
Max. charging and discharging current	55 A*3		
Type of battery	Lithium		
Safety level	Class I		
Ingress protection	IP66		
Operating ambient temperature	-30°C - +60°C		

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