

Technical Report No.: 64.290.22.31030.01

Date: 2022-09-14

Client: V-TAC EXPORTS LIMITED
Room No.301, KAM on Building 176A Queens Road, Central, Hong Kong, HONG KONG

Factory: Shenzhen INVT Electric Co., Ltd. (Baoan Factory)
4th to 1st floors of Emerson Industrial Park, No. 3, Fengtang Avenue, Tangwei Community, Fuhai Street, Baoan District, Shenzhen

Test object: Product: Solar Inverter
Model: VT-6605310, VT-6608310, VT-6610310, VT-6615310

Test specification: EN 50549-1:2019/AC:2019

Purpose of examination: • Testing and evaluation according to the test specification

Test result: The test results show that the presented product is in compliance with the above listed test specifications.

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1. Description of the test object

1.1 Picture(s)



Over view (alternative LED cover board)



Terminal view
(VT-6615310)



Terminal view
(VT-6605310, VT-6608310, VT-6610310)



Inside view
(VT-6615310)



Inside view
(VT-6605310, VT-6608310, VT-6610310)

1.2 Function

Manufacturer's specification for intended use:

- (1) All the models are three phase non-isolated type multi-functions Solar Inverter which will be installed and connected to the grid network or standalone after installation. The unit is defined as type A generator according to Regulation (EU) 2016/631 (NC RfG)
- (2) If certain functions are not permitted by local regulation, the function shall be disabled by hardware or software setting (if applicable) by the manufacturer before putting into the market. For example, it's not permissible to draw electricity from the grid and then feed it back in order to claim statutory reimbursement in some nations;
- (3) Low voltage electrical installations shall comply with national and local regulation. Only qualified electricians are allowed to install and maintain the converter;
- (4) In order to protect the inverter, user and installer, external DC and AC circuit breaker shall be equipped for all source port (battery, AC grid) at the end-use application.
- (5) The unit has below reactive power control modes, shall comply with national and local regulation:
 - 1) Q setpoint mode
 - 2) Q(U) mode
 - 3) Cos ϕ setpoint mode
 - 4) Cos ϕ (P)
- (6) RS 485-1 communication port is provide for remoted control
- (7) Software version: GAAA1.0

1.3 Consideration of the foreseeable use

- Not applicable
 Covered through the applied standard
 Covered by the following comment*
 Covered by attached risk analysis

1.4 Technical Data

Model:	VT-6605310	VT-6608310	VT-6610310	VT-6615310
PV input terminal parameters:				
Maximum input voltage	1100Vd.c.			
PV input operating voltage range	180-1000Vd.c.			



MPPT voltage range(Full load)	250-850Vd.c.	320-850Vd.c.	450-850Vd.c.	
Maximum operating PV input current	14/14Ad.c.		18/18Ad.c.	
Maximum PV short circuit current	18/18Ad.c.		25/25Ad.c.	
AC output rating				
Rated output voltage	3/N/PE,230/400Va.c.			
Rated output frequency	50Hz			
Maximum continuous output current	8Aa.c.	12.8Aa.c.	15.9Aa.c.	23.9Aa.c.
Rated output active power	5kW	8kW	10kW	15kW
Maximum continuous output apparent power S _{Emax}	5.5kVA	8.8kVA	11kVA	16.5kVA
Power factor	0.9 leading ~ 0.9 lagging			

2. Order

2.1 Date of Purchase Order, Customer’s Reference

2022-04-12, 2022-07-15

2.2 Test Sample(s)

- Reception date(s): 2022-05-13, 2022-08-15
- Location(s) of reception: TÜV SÜD Testing Center, D1 building, No. 63 Chuangqi Road, Shilou Town, Panyu District, Guangzhou 511447, P.R. China
- Condition of test sample(s): Intact

2.3 Date(s) of Testing

2022-05-14 to 2022-07-15, 2022-08-15 to 2022-09-09

2.4 Location(s) of Testing

TÜV SÜD Testing Center, D1 building, No. 63 Chuangqi Road, Shilou Town, Panyu District, Guangzhou 511447, P.R. China

2.5 Points of Non-Compliance or Exceptions of the Test Procedure

- None

3. Test Results

- Decision rule according to IEC Guide 115:2021, clause 4.4.3, 4.5.1 was applied.

3.1 Positive Test Results

Test specification(s)	Report no. / Rev. No.	Date	Remark
Grid Code compliance	64.290.22.31030.01	2022-09-14	N/A

4. Remarks

4.1 General

The user manual has been examined according to the minimum requirements described in the product standard. The manufacturer is responsible for the accuracy of further particulars as well as of the composition and layout.



4.2 The co-license certificate application is based on the following main license certificate:

Certificate No.: D 093811 0058 Rev. 00
Report No.: 64.290.22.30833.01
License holder: INVT Solar Technology
Model No.: iMars XG5KTR, iMars XG8KTR, iMars XG10KTR, iMars XG15KTR1-S
(for model VT-6605310, VT-6608310, VT-6610310, VT-6615310 in co-license)

5. Documentation

- None

6. Summary


The test specifications are met.

**TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
TÜV SÜD Group**

Tested by: Jenn Huang
printed name, function & signature

Approved by: Iris Zheng
printed name, function & signature

Jenn Huang



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