

# V-TAC

Meaningful Innovation.

## 50kW

## Three Phase On-Grid Solar Inverter

## 10 YEAR WARRANTY



Multi MPP trackers



160% DC Input  
oversizing



Smart I-V curve  
diagnosis supported



DC&AC type II SPD



Intelligent fault  
detection



AFCI function  
(Optional)



IP66  
rating

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CE RoHS

# Three Phase On-Grid Solar Inverter

## LISTING DETAILS

Model No: **VT-6607150**  
 SKU Code: **11521**  
 EAN Code: **3800157693554**

## MASTER BOX PACKAGING

Net Weight : **50kg**  
 Product Size : **650 x 450 x 260 mm**

## INPUT (DC)

Max. Input Power **80kW**  
 Max. Input Voltage **1100V**  
 Start Voltage **250V**  
 Rated Input Voltage **600V**  
 Full-load MPP Voltage Range **520V ~ 850V**  
 MPPT Voltage Range **200V ~ 1000V**  
 Number of MPP Trackers **4**  
 Number of string per MPPT **3 / 2 / 3 / 2**  
 Max. Current per MPPT **39A / 26A / 39A / 26A**  
 Max. Short Circuit Current per MPPT **48A / 32A / 48A / 32A**

## GENERAL DATA

Operating Temperature Range **-30° C ~ +60° C**  
 Cooling Method **Smart Cooling**  
 Protection Degree **IP66**  
 Max. Operating Altitude **4000m**  
 Relative Humidity **0 ~ 100%**  
 Topology **Transformerless**  
 Night Power Consumption **<1W**  
 Warranty **10 years**

## COMMUNICATION

Display **LED / LCD / WiFi+App (Optional)**  
 Communication **Standard : RS485 / USB  
 Optional: WiFi / GPRS / Ethernet**

## OUTPUT (AC)

Max. Output Current **79.7A**  
 Rated Output Power **50kW**  
 Max. Output Power **55kVA**  
 Rated Grid Frequency **50Hz / 60Hz**  
 Rated Grid Voltage **230Vac / 400Vac**  
 Power Factor **>0.99 (0.8 leading~0.8 lagging)**  
 THDi **<3% (Rated Power)**

## STANDARD COMPLIANCE

Grid Connection Standards **IEC 61727, IEC 62116, IEC 60068, IEC 61683, VDE-AR-N 4110:2018, VDE-AR-N 4105:2018, VDE-AR-N 4120:2018, EN 50549, AS/NZS 4777.2:2020, CEI 0-21, VDE 0126-1-1/A1 VFR 2014, UTE C15-712-1:2013, DEWA DRRG, NRS 097-2-1, MEA/PEA, C10/11, G98/G99**

Safety / EMC **IEC 62109-1:2010, IEC 62109-2:2011, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011**

## EFFICIENCY

Max. Efficiency **98.70%**  
 European Efficiency **98.40%**  
 MPPT Efficiency **99.90%**

## PROTECTION

DC reverse polarity protection **Yes**  
 Anti-islanding protection **Yes**  
 AC short circuit protection **Yes**  
 Residual current monitoring unit **Yes**  
 Insulation resistance monitoring **Yes**  
 Ground fault monitoring **Yes**  
 Grid monitoring **Yes**  
 PV string monitoring **Yes**  
 Surge protection **Type II**  
 AFCI protection **Optional**



## Efficient Higher Revenue

- 4 MPP Trackers, high single circuit tracking accuracy, fast dynamic response and higher power generation
- 160% DC Input Oversizing
- Maximum efficiency of 98.6%. Wide MPPT voltage range: 200V-1000V
- Compatible with high power modules



## Intelligent Simple O&M

- Smart I-V Curve Diagnosis Function: locate PV string faults accurately and automatically detect faults
- Intelligent Fault Detection: ac-side voltage and current waveforms real-time recorded, fast fault location
- Support RS485/USB (WiFi/GPRS/Ethernet optional): remote monitoring and operation via PC or mobile phones



## Reliable Worry Free

- IP66 Protection degree: support outdoor installation
- DC & AC Type II SPD: prevent lightning damage
- AFCI Function (Optional): when an arc-fault is detected the inverter immediately stops operation

