

### THREE PHASE - ON GRID GRID SOLAR INVERTER

50KW

VT-6607100

SKU: 11521

**10** YEAR  
WARRANTY



Efficient  
Higher revenue

- 4 MPP Trackers, high single circuit tracking accuracy, fast dynamic response and higher power generation
- 160% DC Input Oversizing
- 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

### 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

### 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)

### 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

### Communication

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

### 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

### General Data

Dimensions (W x H x D)	650 x 450 x 260 mm
Weight	50kg
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