

GRID TIE INVERTER

THREE PHASE

100kW to 150kW



8/9 MPP tracker, Max, efficiency up to 99.90%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide input voltage range



Anti-PID function (Optional)



IP66 Outdoor Design

GRID TIE INVERTER – THREE PHASE

TECHNICAL SPECIFICATIONS					
Capacity (kW)	100	110	125	136	150
Model Number	VGE-100k8TC-PRO	VGE-110k8TC-PRO	VGE-125k8TC-PRO	VGE-136k8TC-PRO	VGE-150k8TC-PRO
INPUT (DC)					
Max. DC Input Power (kW)	130.0	143.0	162.5	176.8	195.0
Max. DC I/P (Vdc)	1100				
Per MPPT Max. I/P Current (A)	40				
Per MPPT Short Circuit Current (A)	50				
MPPT Tracking Voltage (Vdc)	180-1000				
Start-Up Voltage (Vdc)	200				
Number Of MPPT Tracker	8		9		
Strings Per MPPT Tracker	2				
OUTPUT (AC)					
Rated Output Power (kW)	100	110	125	136	150
Rated Grid Voltage (Vac)	230/415				
Voltage Operating Range (Vac)①	280-455				
Rated Grid Freq. (Hz) / Range②	50(± 5%)				
Rated Output Current AC (A)	159	175	198.5	179.9	198.5
AC Connection	3P + N + PE				
THDI (%)	<3				
Output Power Factor	0.8 Leading to 0.8 Lagging				
EFFICIENCY					
Max. Conversion Efficiency (%)	>98.00				
Max. Euro Efficiency (%)	>98.00				
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	DC: Class II / AC: Class II				
GENERAL DATA					
Dimensions (W*H*D) mm	1040*670*350				
Weight (kg)	85				
Topology	Transformerless				
Noise Emission (dB)	≤50				
Display	LCD / LED+ App				
Cooling Method	Smart Forced Air Cooling				
Operating Ambient Temperature	(-30°C ~ +60°C)				
Operating Humidity	0 - 100				
Max. Operating Altitude (m)	4000m (>4000m Derating)				
Ingress Protection	IP66				
CONNECTION TYPE					
DC Connectors	MC-4				
Ingress AC Plug	IP66 Rated Plug				
Communication Modes	Wi-Fi / DRM / Bluetooth / 4G				
Remote Monitoring	Yes				

- Notes:
- ①&②The voltage operating range and frequency may vary depending upon different grid codes. Specifications are subject to change without advance notice
 - The Inverter's standard warranty can be extended for an additional cost.