

GRID TIE INVERTER

THREE PHASE

4kW to 15kW



2 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)	4	5	6	7	8	10	12	15
Model Number	VGE-4K2T	VGE-5K2T	VGE-6K2T	VGE-7K2T	VGE-8K2T	VGE-10K2T	VGE-12K2T	VGE-15K2T
INPUT (DC)								
Max. DC Input Power (kW)	6.4	8.0	9.6	11.2	12.8	16.0	19.2	24.0
Max. DC I/P (Vdc)	1100							
Per MPPT Max. I/P Current (A)	18							
Per MPPT Short Circuit Current (A)	25							
MPPT Tracking Voltage (Vdc)	180-1000							
Start-Up Voltage (Vdc)	200							
Number Of MPPT Tracker	2							
Strings Per MPPT Tracker	1							
OUTPUT (AC)								
Rated Output Power (kW)	4	5	6	7	8	10	12	15
Rated Grid Voltage (Vac)	415							
Voltage Operating Range (Vac) ①	280-455							
Rated Grid Freq. (Hz) / Range ②	50 (± 5%)							
Rated Output Current AC (A)	6.4	8.0	9.6	10.7	12.8	15.9	19.1	23.9
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							
Surge Protection	DC: Class II / AC: Class II							
GENERAL DATA								
Dimensions (W*H*D) mm	481*390*190							
Weight (kg)	12.0				13.5			
Topology	Transformerless							
Noise Emission (dB)	≤45							
Display	LCD/LED+APP							
Cooling Method	Natural Cooling						Smart 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	RS485 / Wi-Fi / GPRS / Ethernet							
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.