

GRID TIE INVERTER

THREE PHASE

18kW to 35kW



2/3 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

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Capacity (kW)	18	20	25	30	35
Model Number	VGE-18K2T	VGE-20K2T	VGE-25K2T	VGE-30K2T	VGE-35K2T
INPUT (DC)					
Max. DC input power (kW)	27.2	32.0	40.0	48.0	52.8
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)	200-1000				
Start-Up Voltage (Vdc)	200				
Number Of MPPT Tracker	2			3	
Strings Per MPPT Tracker	2			2/1/2	
OUTPUT (AC)					
Rated Output Power (kW)	17	20	25	30	33
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)	27.2	31.8	39.8	47.9	52.7
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*395*215				
Weight (kg)	24				
Topology	Transformerless				
Noise Emission (dB)	≤45				
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	RS485 / WIFI / 4G / Bluetooth				
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.