

GRID TIE INVERTER

SINGLE PHASE

2kW to 6kW



1/2 MPP tracker, Max, efficiency up to 99.90%



String intelligent monitoring



Anti-PID function (Optional)



Zero export application (Optional)



Wide input voltage range



Low start-up voltage of 40V

GRID TIE INVERTER- SINGLE PHASE

TECHNICAL SPECIFICATIONS									
Capacity (kW)	2	3	3.4	3.6	4	4.2	5	5.4	6
Model Number	VGE-2K2S	VGE-3K2S	VGE-3.4K2S	VGE-3.6K2S	VGE-4K2S	VGE-4.2K2S	VGE-5K2S	VGE-5.4K2S	VGE-6K2S
INPUT (DC)									
Max. DC Input Power (kW)	3.0	4.5	5.1	5.4	5.6	6.0	7.5	8.1	9.0
Max. DC I/P (Vdc)	600								
Per MPPT Max. I/P Current (A)	20								
Per MPPT Short Circuit Current (A)	22								
MPPT Tracking Voltage (Vdc)	80-580								
Start-Up Voltage (Vdc)	40								
Number Of MPPT Tracker	1						1 / 2		2
Strings Per MPPT Tracker	1								
OUTPUT (AC)									
Rated Output Power (kW)	2.0	3.0	3.4	3.6	3.8	4.0	5.0	5.4	6.0
Rated Grid Voltage (Vac)	230								
Voltage Operating Range (Vac) ①	180-300								
Rated Grid Freq. (Hz) / Range ②	50(± 5%)								
Rated Output Current AC (A)	8.7	13.0	14.5	15.7	16.6	17.4	22.7	25.8	26.0
AC Connection	P+N+PE								
THDI (%)	<3								
Output Power Factor	0.8 Leading to 0.8 Lagging								
EFFICIENCY									
Max. Conversion Efficiency (%)	98.6								
Max. Euro Efficiency (%)	98.1								
MPPT Efficiency (%)	>99.0								
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 III								
GENERAL DATA									
Dimensions (W*H*D) mm	320*220*152.5						341*350*159		
Weight (kg)	6.0						10.0		
Topology	Transformerless								
Noise Emission (dB)	≤20								
Shell Material	Alluminium Alloy								
Cooling Method	Natural Cooling								
Operating Ambient Temperature(°C)	(-25°C ~ +60°C)								
Operating Humidity (%)	0 - 100								
Max. Operating Altitude (m)	3000 (>3000 Derating)								
Ingress Protection	IP66								
CONNECTION TYPE									
DC Connectors	MC-4								
Ingress AC Plug	IP66 rated plug								
Communication Modes	Wi-Fi(2.4G), 4G, GPRS, Bluetooth, RS485								
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.