

GRID TIE INVERTER

SINGLE PHASE



1 MPP tracker, Max, efficiency up to 97.5%



String intelligent monitoring



Anti-PID function (Optional)



Zero export application, VSG application



Wide output voltage range



Low start-up voltage of 80V

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TECHNICAL SPECIFICATIONS									
CAPACITY (KW)	2	3	3.4	3.6	4.0	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)	2.2	3.3	3.7	3.9	4.4	4.6	5.5	5.9	6.6
Max. DC I/P (Vdc)	550V								600V
Max. MPPT I/P Current (A)	20A								
MPPT Short Circuit Current (A)	30A								
MPPT Tracking Voltage (Vdc)	70V-550V				80V-550V				80-600V
Start-Up Voltage (V)	80V								
Number of MPPT Tracker	1 & 2								
Strings per MPPT Tracker	1								
OUTPUT (AC)									
Rated output power (KW)	2	3	3.4	3.6	4.0	4.2	5	5.4	6
Rated Grid Voltage (V)	230V								
Voltage Operating Range (V) ①	195.5V-253V								
Rated Grid freq. (Hz) / Range ②	50Hz (± 5%)								
Rated output current AC (A)	9.6	14.3	16.2	17.2	19	20	23.3	25.8	28.7
AC Connection	P+N+PE								
THDI (%)	<3%								
Output Power factor	0.8 leading to 0.8 lagging								
EFFICIENCY									
Max. conversion Efficiency (%)	97.5%								
Max. Euro Efficiency (%)	97.3%								
MPPT Efficiency (%)	>99%								
EFFICIENCY									
Anti-Islanding Protection	YES								
DC Reverse Polarity Protection	YES								
Insulation Resistance Protection	YES								
Ground Fault Protection	YES								
Output Over Current Protection	YES								
Output Short circuit Protection	YES								
Output Over Voltage Protection	YES								
DC Isolator Switch	No								
Surge Protection	DC: Type II / AC: Type II								
GENERAL DATA									
Dimensions (W*H*D) mm	254W*147H*236.2D						305W*280H*180D		
Weight (Kg)	6.35						7.8		
Topology	Transformerless								
Noise Emission (dB)	≤25dB								
Display	LED with LCD Display								
Cooling Method	Natural Cooling								
Operating ambient Temperature	(-25°C ~ +65°C)								
Operating Humidity	0% - 100%								
Max. Operating Altitude (m)	2000m (>2000m Derating)								
Ingress Protection	IP65								
Standard Warranty	8 Years								
CONNECTION TYPE									
DC connectors	MC-4								
Ingress AC plug	IP65 rated plug								
Communication Modes	WiFi / GPRS / RS 485/ Local Monitoring								
Remote Monitoring	YES								
Remote Monitoring	YES								

Note :-

- ① & ② The range of output voltage and frequency may vary depending upon different grid codes.
- Specifications are subject to change without advance notice