

GRID TIE INVERTER

THREE PHASE



2 MPP tracker, Max, efficiency up to 98.3%



String intelligent monitoring (optional)



Anti-PID function (Optional)



Zero export application, VSG application



Wide output voltage range



IP65 Outdoor Design

15kW to 35kW

GRID TIE INVERTER - THREE PHASE

TECHNICAL SPECIFICATIONS						
CAPACITY (KW)	15	18	20	25	30	35
MODEL NUMBER	VGE-15K2T	VGE-18K2T	VGE-20K2T	VGE-25K2T	VGE-30K2T	VGE-35K2T
INPUT (DC)						
Max.DC input power (KW)	18.0	21.6	24.0	30.0	36.0	42.0
Max. DC I/P (Vdc)	1000V					
Max. MPPT I/P Current (A)	20A+26A		26A+26A		40A	
MPPT Short Circuit Current (A)	30A+39A		39A+39A		60A	
MPPT Tracking Voltage (Vdc)	180-1000V				200-1000V	
Start-Up Voltage (V)	200V					
Number of MPPT Tracker	2					
Strings per MPPT Tracker	1/1+2		2		3	
OUTPUT (AC)						
Rated output power (KW)	15	18	20	25	30	35
Rated Grid Voltage (V)	415V					
Voltage Operating Range (V) ①	280-455V					
Rated Grid freq. (Hz) / Range ②	50Hz (± 5%)					
Rated output current AC (A)	22.9	27.5	30.6	38.2	41.7	49.0
AC Connection	3P + N + PE					
THDI (%)	<3%					
Output Power factor	0.9 leading to 0.9 lagging					
EFFICIENCY						
Max. conversion Efficiency (%)	98.5%				98.7%	
Max. Euro Efficiency (%)	97.5%				98.1%	
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	YES					
Surge Protection	DC: Type II / AC: Type II					
GENERAL DATA						
Dimensions (W*H*D) mm	362W*527H*220D				330W*572H*206D	
Weight (Kg)	20				28.7	
Topology	Transformerless					
Noise Emission (dB)	≤45dB					
Display	LED with LCD Display					
Cooling Method	Intelligent Fan 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					

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