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COMPANY PROFILE

- Volta Green Energy Private Limited is a dynamic energy solutions company committed to sustainable growth through advanced solar and electrical technologies. Backed by the expertise of Pooja Group of Industries, with over a decade of excellence in electrical panels and equipment manufacturing, the company has established itself as a trusted name in the renewable energy sector.
- Volta Green Energy offers advanced solar inverters, reliable transformers, Stabilizer and Battery Energy Storage Systems serving residential, commercial, and industrial applications with a focus on quality, efficiency, and affordability. With modern infrastructure, skilled workforce, and advanced testing facilities, the company ensures consistent quality and timely project execution.

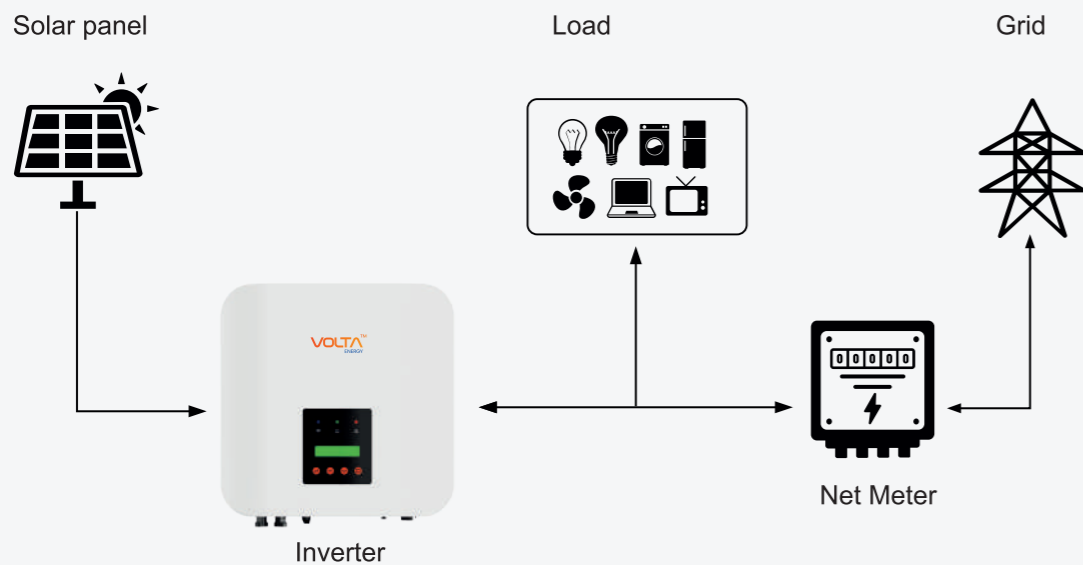
OUR VISION

To lead the transformation of the energy sector by providing innovative and sustainable electrical solutions that empower industries and communities, ensuring a cleaner and more resilient future."

OUR MISSION

"To offer cost-effective, customer-centric electrical products and Quality Product, ensuring optimal performance and promoting environmental responsibility through our range of transformers, solar inverters, BESS, and stabilizers."

Working With Grid Export



CERTIFICATIONS



GRID TIE INVERTER

SINGLE PHASE

2kW to 6kW



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



Zero export application (Optional)



String intelligent monitoring



Wide input voltage range



Anti-PID function (Optional)



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.

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
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GRID TIE INVERTER

THREE PHASE

18kW to 35kW



M 2/3 MPP tracker, Max, efficiency up to 99.90%

F Zero export application, VSG application

M String intelligent monitoring (optional)

W Wide input voltage range

PID Anti-PID function (Optional)

IP66 Outdoor Design

GRID TIE INVERTER - THREE PHASE

TECHNICAL SPECIFICATIONS

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:
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GRID TIE INVERTER

THREE PHASE

40kW to 80kW



3/4/6MPP 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

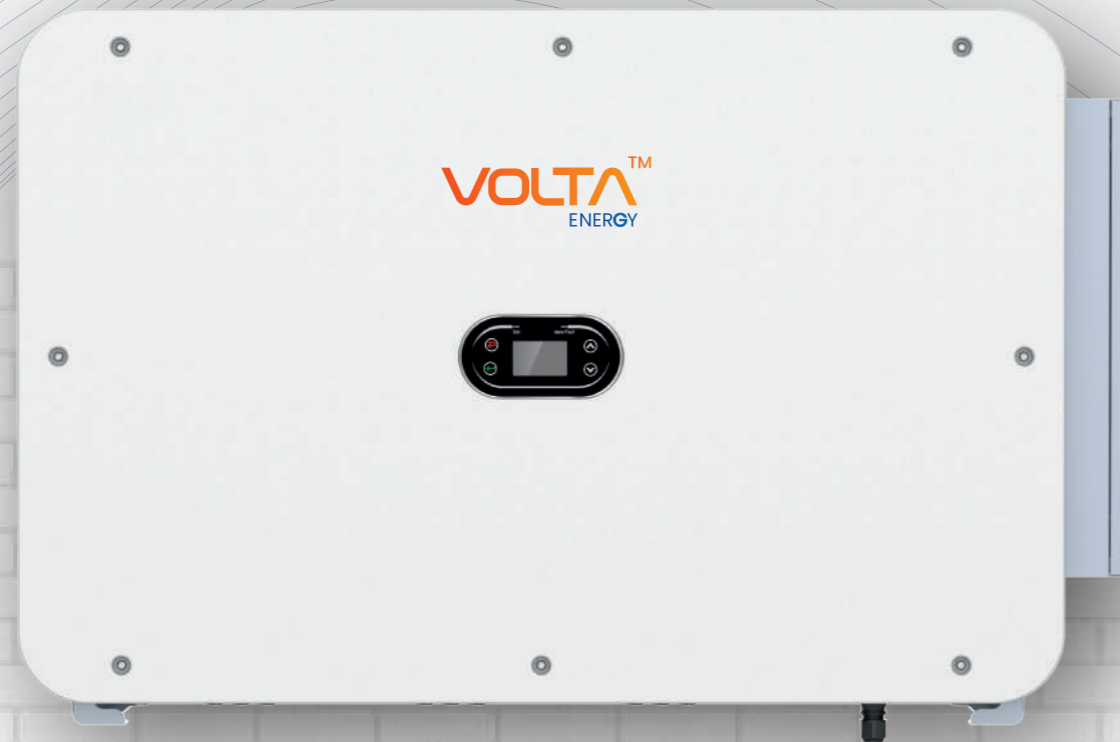
	40	50	60	70	80
Capacity (kW)	40	50	60	70	80
Model Number	VGE-40K3T	VGE-50K3T	VGE-60K4T	VGE-70K4T	VGE-80K4T
INPUT (DC)					
Max. DC Input Power (kW)	54.0	72.0	96.0	105.0	120.0
Max. DC I/P (Vdc)	1100				
Per MPPT Max. I/P Current (A)	40				
Per MPPT Short Circuit Current (A)	50				
MPPT Tracking Voltage (Vdc)	180-1000				
Start-Up Voltage (Vdc)	200				
Number Of MPPT Tracker	3	4	4	6	6
Strings Per MPPT Tracker	2				
OUTPUT (AC)					
Rated Output Power (kW)	40	50	60	70	80
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)	64.3	80.4	95.6	99.4	133.4
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				
PV String Monitoring	YES				
Surge Protection	DC: Class II / AC: Class II				
GENERAL DATA					
Dimensions (W*H*D) mm	600*430*230	650*450*260	780*585*333		
Weight (Kg)	30.0	50.0	77.8		
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	Wi-Fi / GPS / Ethernet				
Remote Monitoring	YES				

- Notes:
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GRID TIE INVERTER

THREE PHASE

100kW to 150kW



8/9 MPP tracker, Max, efficiency up to 99.90%

F Zero export application, VSG application

String intelligent monitoring (optional)

Wide input voltage range

PID Anti-PID function (Optional)

IP66 Outdoor Design

GRID TIE INVERTER – THREE PHASE

TECHNICAL SPECIFICATIONS

Capacity (kW)	100	110	125	136	150
Model Number	VGE-100k8TC-PRO	VGE-110k8TC-PRO	VGE-125k8TC-PRO	VGE-136k8TC-PRO	VGE-150k8TC-PRO
INPUT (DC)					
Max. DC Input Power (kW)	130.0	143.0	162.5	176.8	195.0
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)	180-1000				
Start-Up Voltage (Vdc)	200				
Number Of MPPT Tracker	8		9		
Strings Per MPPT Tracker	2				
OUTPUT (AC)					
Rated Output Power (KW)	100	110	125	136	150
Rated Grid Voltage (Vac)	230/415				
Voltage Operating Range (Vac) ①	280-455				
Rated Grid Freq. (Hz) / Range ②	50 (± 5%)				
Rated Output Current AC (A)	159	175	198.5	179.9	198.5
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				
PV String Monitoring	Yes				
Surge Protection	DC: Class II / AC: Class II				
GENERAL DATA					
Dimensions (W*H*D) mm	1040*670*350				
Weight (kg)	85				
Topology	Transformerless				
Noise Emission (dB)	≤50				
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	Wi-Fi / DRM / Bluetooth / 4G				
Remote Monitoring	Yes				

- Notes:
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 - The Inverter's standard warranty can be extended for an additional cost.