



ADDRESS

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COMPANY PROFILE

- 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.

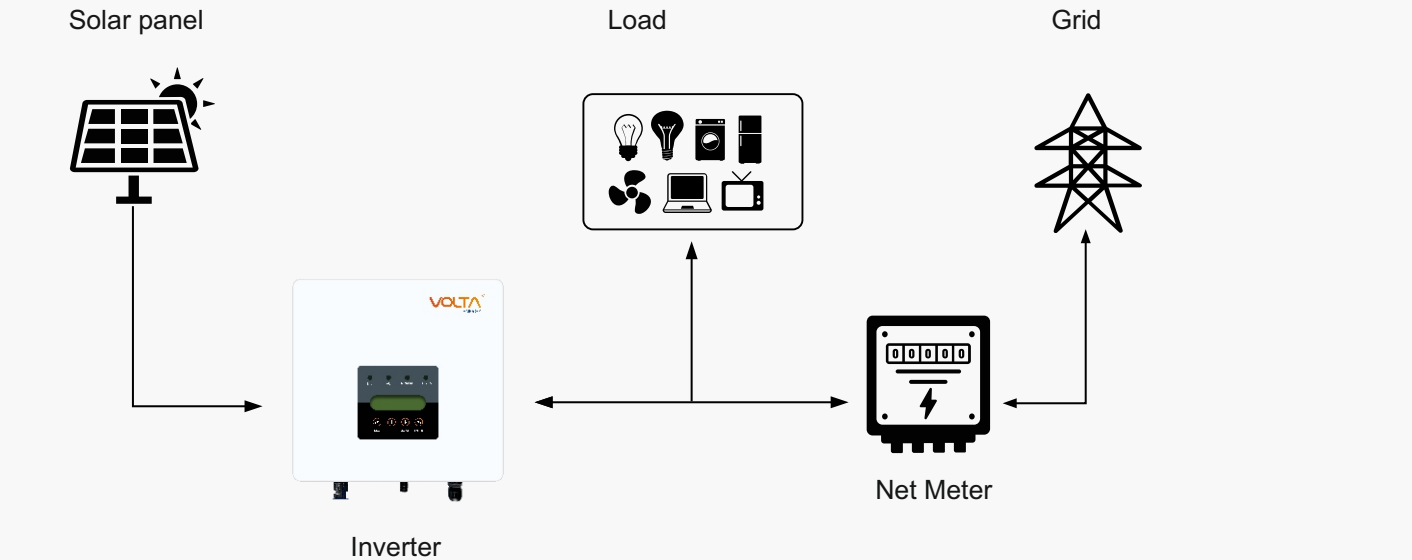
OUR VISION

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.”

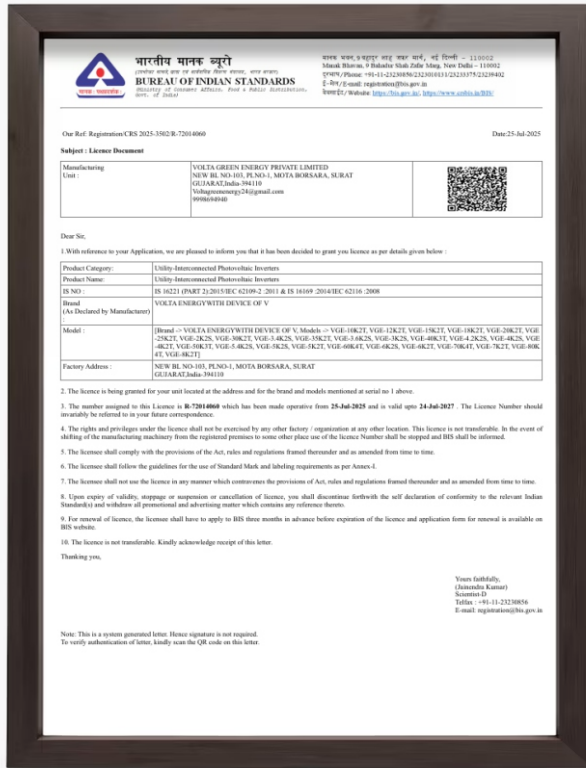
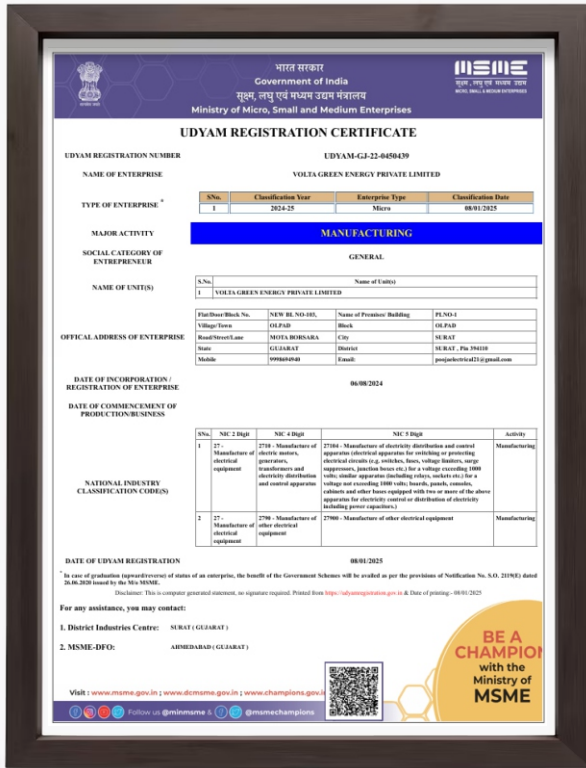
OUR MISSION

“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



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

GRID TIE INVERTER - SINGLE PHASE

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

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

GRID TIE INVERTER - THREE PHASE

TECHNICAL SPECIFICATIONS							
CAPACITY (KW)	4	5	6	7	8	10	12
MODEL NUMBER	VGE-4K2T	VGE-5K2T	VGE-6K2T	VGE-7K2T	VGE-8K2T	VGE-10K2T	VGE-12K2T
INPUT (DC)							
Max.DC input power (KW)	5.2	6.0	7.2	8.4	9.6	12.0	14.4
Max. DC I/P (Vdc)	1000V						
Max. MPPT I/P Current (A)	20A						
MPPT Short Circuit Current (A)	30A						
MPPT Tracking Voltage (Vdc)	120V-1000V						
Start-Up Voltage (V)	140V						
Number of MPPT Tracker	2						
Strings per MPPT Tracker	1						
OUTPUT (AC)							
Rated output power (KW)	4	5	6	7	8	10	12
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)	6.7	7.6	9.2	10.7	12.2	15.3	18.3
AC Connection	3P + N + PE						
THDI (%)	<3%						
Output Power factor	0.9 leading to 0.9 lagging						
EFFICIENCY							
Max. conversion Efficiency (%)	98.5%						
Max. Euro Efficiency (%)	97.5%						
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	283W*463H*178D						
Weight (Kg)	11						
Topology	Transformerless						
Noise Emission (dB)	≤45dB						
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						

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IP65 Outdoor Design

GRID TIE INVERTER - THREE PHASE

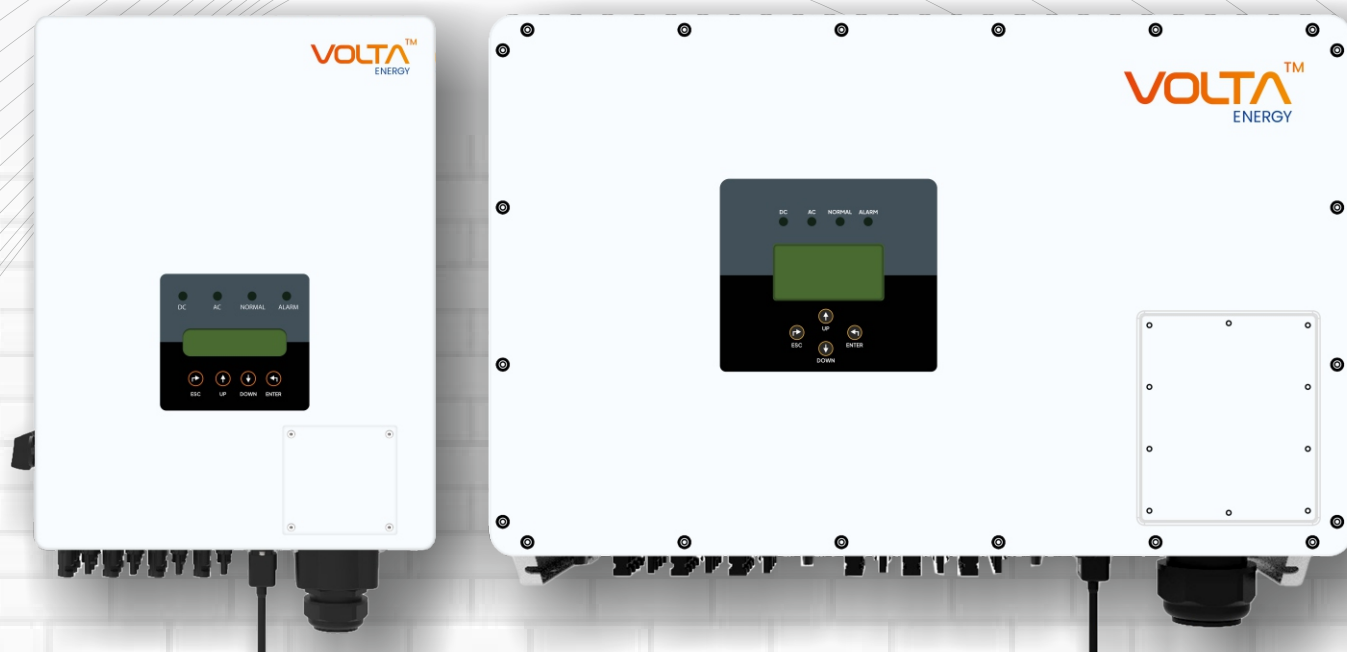
TECHNICAL SPECIFICATIONS						
CAPACITY (KW)	15	18	20	25	30	35
MODEL NUMBER	VGE-15K2T	VGE-18K2T	VGE-20K2T	VGE-25K2T	VGE-30K2T	VGE-35K2T
INPUT (DC)						
Max.DC input power (KW)	18.0	21.6	24.0	30.0	36.0	42.0
Max. DC I/P (Vdc)	1000V					
Max. MPPT I/P Current (A)	20A+26A		26A+26A		40A	
MPPT Short Circuit 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 :-

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GRID TIE INVERTER

THREE PHASE



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Anti-PID function (Optional)



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Wide output voltage range



IP65 Outdoor Design

GRID TIE INVERTER - THREE PHASE

TECHNICAL SPECIFICATIONS					
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)	48.0	60.0	72.0	84.0	96.0
Max. DC I/P (Vdc)	1000V				
Max. MPPT I/P Current (A)	40A				
MPPT Short Circuit Current (A)	60A				
MPPT Tracking Voltage (Vdc)	200-1000V				
Start-Up Voltage (V)	200V				
Number of MPPT Tracker	3/4		4		
Strings per MPPT Tracker	3		3/4		
OUTPUT (AC)					
Rated output power (KW)	40	50	60	70	80
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)	55.7	63.2	84.3	99.4	113.2
AC Connection	3P + N + PE				
THDI (%)	<3%				
Output Power factor	0.9 leading to 0.9 lagging				
EFFICIENCY					
Max. conversion Efficiency (%)	98.7%				
Max. Euro Efficiency (%)	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	434W*570H*243D			700W*575H*297D	
Weight (Kg)	39.0			60	
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				

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