



ADDRESS

New Block No:- 103, Plot No:-01, Gram Panchayat, Mota Borsara, Surat, Gujarat, 394110

M info@voltagreenenergy.in | © +91 9292 81 9292





www.voltagreenenergy.in





M info@voltagreenenergy.in © +91 9292 81 9292



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.

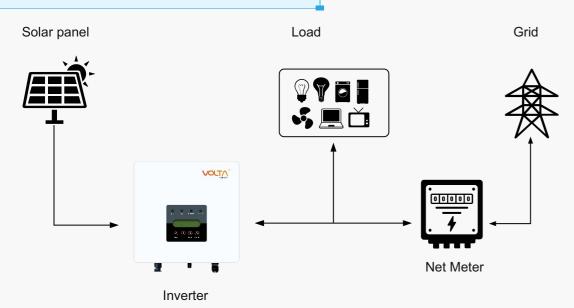
OUR VISION

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."



"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









 $_{
m 2}$

SINGLE PHASE





1 MPP tracker, Max, efficiency up to 97.5%



Zero export application, VSG application



String intelligent monitoring



Wide output voltage range



Anti-PID function (Optional)



Low start-up voltage of 80V

GRID TIE INVERTER - SINGLE PHASE

				CAL SPECIFIC					
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-6K2
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)				55	0V				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			12.2		P+N+PE				
THDI (%)					<3%				
Output Power factor				0.8 le	ading to 0.8 la	aaina			
EFFICIENCY		2.0 .2223 20 0.0 10331113							
Max. conversion Efficiency (%)					97.5%				
Max. Euro Efficiency (%)									
MPPT Efficiency (%)		97.3% >99%							
EFFICIENCY					~ 93 %				
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				D.C.	No T. II./ACT				
Surge Protection				DC:	Type II / AC: Ty	/ре п			
GENERAL DATA									
Dimensions (W*H*D) mm	254W*147H*236.2D 305W*280H*180D)D	
Weight (Kg)			6	5.35				7.8	
Topology					Transformerles	SS			
Noise Emission (dB)					≤25dB				
Display) with LCD Dis				
Cooling Method					Natural Coolin				
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	7 RS 485/ Loca	al Monitoring			
Remote Monitoring	YES								
	YES								

• Specifications are subject to change without advance notice

04

THREE PHASE





2 MPP tracker, Max, efficiency up to 98.3%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



IP65 Outdoor Design

GRID TIE INVERTER - THREE PHASE

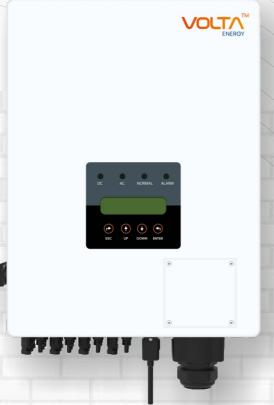
		TE	CHNICAL SPECI	FICATIONS				
CAPACITY (KW)	4	5	6	7	8	10	12	
MODEL NUMBER	VGE-4K2T	VGE-5K2T	VGE-6K2T	VGE-7K2T	VGE-8K2T	VGE-10K2T	VGE-12K2T	
INPUT (DC)					702 0.12.			
Max.DC input power (KW)	5.2	6.0	7.2	8.4	9.6	12.0	14.4	
	5.2	6.0	7.2		9.6	12.0	14.4	
Max. DC I/P (Vdc)				1000V				
Max. MPPT I/P Current (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				'				
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								
Output Over Voltage Protection	YES YES							
DC Isolator Switch								
				YES	\ II			
Surge Protection			D	C: Type II / AC: Type	: 11			
GENERAL DATA				207\4/*/671 *772				
Dimensions (W*H*D) mm				283W*463H*178D				
Weight (Kg)				- 11				
Topology				Transformerless				
Noise Emission (dB)				≤45dB				
Display			L	ED with LCD Displa	ay			
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							

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

THREE PHASE







2 MPP tracker, Max, efficiency up to 98.3%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



IP65 Outdoor Design

GRID TIE INVERTER - THREE PHASE

		TECHNI	CAL SPECIFICATIO	NS			
CAPACITY (KW)	15	18	20	25	30	35	
MODEL NUMBER	VGE-15K2T	VGE-18K2T	VGE-20K2T	VGE-25K2T	VGE-30K2T	VGE-35K2T	
NPUT (DC)							
Max.DC input power (KW)	18.0	21.6	24.0	30.0	36.0	42.0	
Max. DC I/P (Vdc)	10.0	21.0	100		30.0	12.0	
Max. MPPT I/P Current (A)	20A+	-26Δ	26A+		40	DA .	
MPPT Short Circuit Current (A)	30A+		39A+		60A		
MPPT Tracking Voltage (Vdc)	3071	-557 (180-1			000V	
Start-Up Voltage (V)			20		200 1		
Number of MPPT Tracker				2			
Strings per MPPT Tracker	1/1	+2		2		3	
OUTPUT (AC)	.,.	· <u> </u>		-		•	
Rated output power (KW)	15	18	20	25	30	35	
Rated Grid Voltage (V)	15	10	41:		30	33	
Voltage Operating Range (V) (1)			280-				
Rated Grid freq. (Hz) / Range ②			50Hz (
Rated ont freq. (112) / Range ②	22.9	27.5	30.6	38.2	41.7	49.0	
AC Connection	22.3	21.5	30.6 3P + N		71.7	45.0	
THDI (%)			3P + P <3				
Output Power factor			0.9 leading to				
EFFICIENCY			0.5 leading to	0 0.5 lagging			
Max. conversion Efficiency (%)		0.0	3.5%		00	.7%	
			.5%			.1%	
Max. Euro Efficiency (%)		97		99%	98	.1%	
MPPT Efficiency (%)				19%			
Anti Islanding Protection			V	-c			
Anti-Islanding Protection DC Reverse Polarity Protection			YE				
nsulation Resistance Protection			YE				
Ground Fault Protection			YE				
Output Over Current Protection							
Output Short circuit Protection Output Over Voltage Protection			YE				
DC Isolator Switch			YE DC: Type II				
Surge Protection			DC: Type II	AC: Type II			
GENERAL DATA		7.004/*505	71.1*2200		770\4/*==	21 1*20CD	
Dimensions (W*H*D) mm		362W*525			330W*57		
Veight (Kg)		20			28	3.7	
Topology			Transfor				
Noise Emission (dB)			≤45				
Display Society Mathed			LED with L				
Cooling Method	Intelligent Fan Cooling						
Operating ambient Temperature				+65°C)			
Operating Humidity	0% - 100%						
Max. Operating Altitude (m)	2000m (>2000m Derating)						
ngress Protection	IP65						
Standard Warranty			8 Ye	ears			
CONNECTION TYPE							
DC connectors			MC				
Ingress AC plug			IP65 rat				
Communication Modes	WiFi / GPRS / RS 485 / Local Monitoring						

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

08

THREE PHASE





2 MPP tracker, Max, efficiency up to 98.3%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



IP65 Outdoor Design

GRID TIE INVERTER - THREE PHASE

		TECHNICAL SPECIF	ICATIONS				
CAPACITY (KW)	40	50	60	70	80		
MODEL NUMBER	VGE-40K3T	VGE-50K3T	VGE-60K4T	VGE-70K4T	VGE-80K4T		
NPUT (DC)							
Max.DC input power (KW)	48.0	60.0	72.0	84.0	96.0		
Max. DC I/P (Vdc)	40.0	00.0	1000V	04.0	50.0		
Max. MPPT I/P Current (A)			40A				
MPPT Short Circuit Current (A)			60A				
, ,			200-1000V				
MPPT Tracking Voltage (Vdc)			200-1000V				
Start-Up Voltage (V)	7	/4	2000	4			
Number of MPPT Tracker Strings per MPPT Tracker		3		3/4			
OUTPUT (AC)		5		3/7			
Rated output power (KW)	40	50	60	70	80		
Rated Grid Voltage (V)	40	50	415V	70	80		
Voltage Operating Range (V)							
			280-455V				
Rated Grid freq. (Hz) / Range ② Rated output current AC (A)	FF 22	67.2	50Hz (± 5%)	00.7	117.0		
, , ,	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	9			
EFFICIENCY							
Max. conversion Efficiency (%)	98.7%						
Max. Euro Efficiency (%)	98.1%						
MPPT Efficiency (%)			>99%				
EFFICIENCY							
Anti-Islanding Protection			YES				
DC Reverse Polarity Protection			YES				
nsulation 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*297				75H*297D		
Weight (Kg)	39.0 60				0		
Гороlоду			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)						
ngress Protection	IP65						
Standard Warranty			8 Years				
CONNECTION TYPE							
DC connectors			MC-4				
ngress AC plug			IP65 rated plug				
Communication Modes		WiFi/(GPRS / RS 485 / Local Mo	nitoring			
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

10