



**Empowering India's Solar Future  
with In-House Innovation & Quality**



**VOLTAA**

**Engineered for Solar  
Excellence**

**AatmaNirbhar  
Bharat Abhiyan**





# About VOLTAH

## A Leading Solar Solutions Provider Brand

### Brand Overview

Voltah, a flagship brand under **Lobel Green Energy**, stands as a leading manufacturer of advanced solar products in India. With a strong commitment and vast experience in renewable sector. Voltah specializes in high-performance solar inverters, solar panels, ACDB/DCDB distribution boxes and BOS. Backed by cutting-edge technology and deep industry expertise, Our solutions are crafted to meet the growing energy demands while reducing the carbon footprint of our country.

### Our Vision

To establish Voltah as a globally recognized Indian brand in the solar industry by offering a wide range of high-quality, innovative products. We envision becoming a one-stop solution for all solar energy needs—delivering everything from advanced components to complete project execution. Our aim is to lead the way in making clean, efficient, and accessible solar power a global standard, proudly driven by Indian engineering and excellence.

### Our Mission

To achieve a leading position in solar product supply across India’s residential and commercial segments by delivering reliable, high-performance, and innovative solutions. We are also focused on expanding our presence in ground-mounted systems and IPP projects—building a strong foundation for long-term, sustainable growth and contributing to the nation’s clean energy infrastructure with integrity.

### Why Choose Us

-  Empowering Solar Industry Since 2009
-  Served More Than 16000+ Happy Customers
-  Highest Distribution Networks
-  Supplied More Than 1.8 Lac+ Solar Inverters

	<b>Advanced Automated Manufacturing Facility</b>		<b>Remote Monitoring and Smart Testing Facility</b>
<b>Experienced Technical and Support Team</b>		<b>Robust Logistics and Supply Chain Network</b>	
	<b>Highly Satisfied Customers</b>		<b>Easy On Boarding and Maintenance Procedures</b>



## Smart Monitoring System With VOLTAAH Mobile App

Monitor the performance of all your solar projects with ease using our smart monitoring server accessible through group or master admin login.



Track System  
Performance From  
Anywhere



Real-time  
Monitoring of Solar  
Energy Production



Compact and Easy  
to Install



Multi-device  
Compatibility  
(Android & iOS)

## Advanced Support and Solutions



Easy Warranty Claim  
Process



Installation & Service  
Guidance



CRM-Based Ticketing  
System



Dedicated Support  
Helpline



Remote Monitoring &  
Diagnostics



Quick Repair or  
Replacement



Real-Time Case Tracking



On-Site Response



Component Level  
Troubleshooting



Direct Support to  
End-Users



#SmartDataMonitoring

# VoltAh (I) Series

Single Phase Solar GTI - 3<sup>rd</sup> Gen'



VTI - 1.5 | 2.5 | 3.6 | 4.6KW

VTI - 5 | 5.4 | 6KW



Latest 30Ah Model



Die Casting Premium Design



IP65 Ingression



Modular Design for Easy Maintenance



Type - II SPD for Both DC & AC



Wifi / GPRS - Optional



AFCI Optional - Proactively Reduce Fire Risk



24 Hours Loads Consumption Monitoring

✓ Ultra Stable

✓ Super GTI

✓ Great Reliability

✓ Wide Range



#LatestStandards

# SINGLE PHASE SOLAR GRID TIED INVERTER

## Technical Datasheet

Model No	VTI - 1.5	VTI - 2.5	VTI - 3.6	VTI - 4.6	VTI - 5 /5.4	VTI - 6
<b>DC Side / Input Parameters</b>						
Max DC power (W)	2250W	3300W	5400W	6600W	7500W	7500W
Max DC voltage (Vdc)	550	550	550	550	550	550
Min System start/Shut down voltage (Vdc)	75/100	75/100	75/100	75/100	75/100	75/100
MPPT voltage range(Vdc)	100~500	100~500	100~500	100~500	100~500	100~500
Max. input current (A)			18A			30A
Max.input short circuit per MPPT			25A			36A
Number of MPP trackers				1		
Strings per MPP tracker				1		
<b>AC Side / Output Parameters</b>						
Nominal output power (W)	1500	2200	3600	4000	5000	6000
Maximum output power (W)	1650	2420	3960	4600	5500	6600
Nominal output voltage/range (V)	230,240/180~270					
AC grid frequency/range (Hz)	50Hz					
Maximum output current (A)	8	12	18	21	23	28
AC connection (with PE)	Single phase					
Current distortion(THDi)	Single phase					
Power factor	<1.5%	<1.5%	<2.5%	<2.5%	<2.5%	<2.5%
	~1%(Adjustable from 0.8 leading to 0.8 lagging)					
<b>Efficiency</b>						
Maximum conversion efficiency	97.3%	97.4%	97.8%	97.8%	97.5%	97.6%
European efficiency MPPT	97.0%	97.1%	97.3%	97.3%	97.2%	97.3%
efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
<b>Safety and Protection</b>						
AFCI	Yes					
DC reverse-polarity protection	Yes					
Anti-islanding / Overvoltage protection	Yes					
Short circuit protection	Yes					
Leakage current protection	Yes					
Grid monitoring / Ground fault monitoring	Yes					
DC/AC side SPD(thermally protected)	Yes					
<b>General Parameters</b>						
Dimension (L/W/H)(mm)	315/300/108			380/305/118		
Weight (kg)	6			9		
Embedded DC Switch	Optional					
Night power consumption (W)	< 0.2					
Isolation type	Transformer less					
Protection degree	IP65 according to IEC60529					
Operation temperature (°C)	-25 ~ +60					
Cooling concept	Smart Cooling					
Operating Altitude (m)	<2000m without power derating					
Acoustic noise level (dB)	< 25					
Display	Graphic LCD					
Communication Interface	Standard WIFI; RS485 (optional)					
Warranty	5/7/10 years					
<b>Certificates and Approvals</b>						
BIS Certificate						
• IS: 16221 Part-2,2015 / IEC 62109-2-2011 • IS: 16169-2019 / IEC 62116:2014 • IS 17980-2022 / IEC 62891:2020						

# VoltAh (E) Series

Three Phase Solar Super GTI - 3<sup>rd</sup> Gen'



VTE - 5 | 6 | 8 | 10 | 12 | 15KW

VTE - 20 | 25KW



Compatible with  
Topcon & HJT



Patented Intelligent  
Cooling Designs



IP65 Protected



Modular Design for  
Easy Maintenance



Advanced Energy  
Export Limit Control



Wifi / GPRS / Lan  
Communication



Space Vector Pulse  
Width Modulation  
(SVPWM) Controller



24 Hours Loads  
Consumption  
Monitoring

✓ Stable Output

✓ Advanced GTI

✓ High Reliability

✓ Broad Range



★★★★★  
TRUSTED

# THREE PHASE SOLAR GRID TIED INVERTER

## Technical Datasheet

Model No	VTE - 5	VTE - 6	VTE - 8	VTE - 10	VTE - 12	VTE - 15	VTE - 20	VTE - 25
<b>Input (DC)</b>								
Max DC power (W)	6500W	7500W	9500W	11500W	18000W	22500W	30000W	30000W
Max DC voltage (Vdc)				1000Vd.C			1000Vd.C	
Min working voltage (Vdc)				250Vd.C			250Vd.c.	
MPPT voltage range(Vdc)				250...850Vd.C			250..850Vd.c.	
Max. input current / Per string (A)				18A/18A			26A/26A	36A/26A
Max.input short circuit per MPPT				25A/25A			34A/34A	46A/34A
Number of MPP trackers				2			2	
Strings per MPP tracker				1			2	
<b>Output (AC)</b>								
AC nominal power (W)	5000	6000	8000	10000	12000	15000	20000	25000
Max AC apparent power (VA)	6000	7000	8800	11000	13200	16500	22000	27500
Max output current (A)	10	12	15	17	20	23	30	41.6
Nominal AC output				50/60 Hz; 400 Vac			50/60 Hz; 400 Vac	
AC output range				45/55 Hz ; 280 ~ 490 Vac (Adj)			45/55 Hz ; 280 ~ 490 Vac (Adj)	
Power factor				0.8leading...0.8laging			0.8leading...0.8laging	
Harmonics				< 5%			< 1.5%	
Grid type				3 W/N/PE			3 W/N/PE	
<b>Efficiency</b>								
Max efficiency	98.2%	98.2%	98.3%	98.4%	98.4%	98.4%	98.5%	98.5%
Euro efficiency	97.7%	97.7%	97.8%	97.9%	97.9%	98.0%	98.1%	98.2%
MPPT efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
<b>Safety and Protection</b>								
DC reverse-polarity protection						Yes		
DC breaker						Yes		
DC/AC SPD						Yes		
Leakage current protection						Yes		
Insulation Impedance Detection						Yes		
Residual Current protection						Yes		
<b>General Parameters</b>								
Dimension (L/W/H)(mm)				480*476*157			520*510*160	
Weight (kg)				16			23	
Operating temperature range °C						-25 ~ +60		
Degree of protection						IP65		
Cooling concept						Smart Cooling		
Topology						Transformerless		
Display						LCD		
Humidity						0-95%, no condensation		
Communication						RS485/WiFi/GPRS		
Warranty						5/7/10 years		
<b>Certificates and Approvals</b>								
BIS Certificate								
• IS: 16221 Part-2,2015 / IEC 62109-2-2011 • IS: 16169-2019 / IEC 62116:2014 • IS 17980-2022 / IEC 62891:2020								

# Smart PV Solutions

## For Advanced Technology Solar Products & Kits

PANEL | INVERTER | ACDB-DCDB | BOS



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**Aapke Solar Ki Dhadkan** 

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