



# Vitronics Controls

An ISO 9001-2008  
Certified OEM Company

## GRID TIE INVERTER (With Zero Export)

- IP65 Weather Protection
- Excellent Low Light Sensitivity
- Rugged cast Aluminium Chassis
- Wi-Fi module as standard for free
- 5 Year Warrenty Standard
- Zero export limitation
- Dynamic MPPT efficiency >99.9%
- Euro efficiency >97.3%



### T/S Series

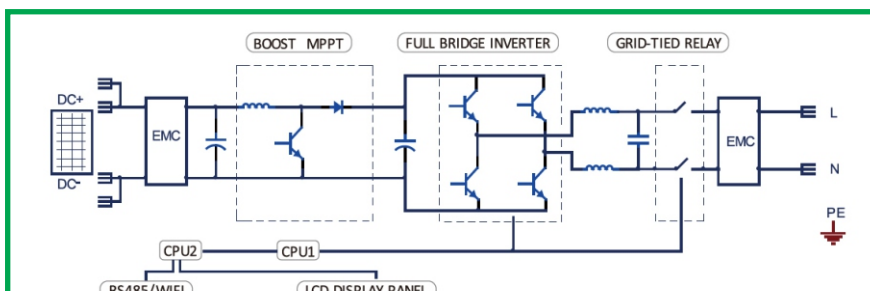
On grid Series string inverters adopt the best invention patented topology globally, also, customization available, which provides more options for PV power systems.

T/S series inverter components from world-class electronic suppliers like



T/s series has been proven to be outstanding for its features like leading edge efficiency, high cost-effective, modern appearance, friendly interface, and ultra-long quality warranty, etc

## FRAMES



# TECHNICAL SPECIFICATIONS



Model No	VT1500TL	VT2200TL	VT3000TL	VS3600TL	VS4400TL	VS5000TL
<b>DC side/ Input parameters</b>						
Max. DC power [W]	1800	2500	3400	3680	4500	5500
Max. DC voltage [Vdc]	450	500	550			
Min. System start/Shut down voltage [Vdc]	75/150		75/100			
MPPT voltage range[Vdc]	100-450	100-500	100/ 550			
Max. input current	10	13	15	13.5/13.5	13.5/13.5	15/15
Number of MPP trackers	1			2		
Strings per MPP tra[A]	1					
<b>AC side/ output parameters</b>						
Nominal output power [W]	1500	2200	3000	3300	4000	4600
Maximum output power [W]	1650	2420	3300	3680	4400	5000
Nominal output voltage/range [V]	208,220,230,240/180-270					
AC grid frequency/range [Hz]	50Hz-60Hz(Auto Selection)/44Hz-55Hz, 54Hz-65Hz					
Maximum output current [A]	8	12	17	16	21	23
AC connection(with PE)	Single Phase					
Current distortion(THDi) [%]	< 1.5			< 2.5		
Power factor [%]	> 99.9			> 99.95		
<b>Efficiency</b>						
Maximum conversion efficiency[%]	97.3	97.4	97.5	97.8		
European efficiency[%]	97	97.1	97.2	97.3		
MPPT efficiency[%]	99.9					
<b>Safety and protection</b>						
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 varistors(thermally protected)	Yes					
<b>General Parameters</b>						
Dimension(L/W/H)[mm]	382*317*151			382*317*166		
Weight (kg)	10			13.5		
Embedded DC Switch	Optional					
Night power consumption[W]	< 0.2					
Isolation type	Transformerless					
Protection degree	IP65 according to IEC60529					
Operation temperature[°C]	-25 - 60					
Cooling concept	Natural convection					
Operating Altitude[m]	<2000m without power derating					
Acoustic noise level[dB]	< 25					
Display	Graphic LED					
Communication Interface	Standard Wi-Fi					
Certificates and Approvals General	CE-(EMC/LVD) : EN(IEC) 61000-1/-2/-3/; EN(IEC) 62109-1/-2					
Warranty	5 years; 10 years for optional					

## TECHNICAL SPECIFICATIONS



Model No	VTP6kTL	VTP8kTL	VTP10kTL	VTP15kTL	VTP20kTL
<b>DC side/ Input parameters</b>					
Max. DC power [W]	7500W	9500W	11500W	16500W	22000W
Max. DC voltage [Vdc]	1000V	1000V	1000V	1000V	1000V
Min. System start/Shut down voltage [Vdc]	250V	250V	250V	250V	250V
MPPT voltage range[Vdc]	250V-850V	250V-850V	250V-850V	250V-850V	250V-850V
Max. input current/per string(A)	17/17	17/17	17/17	20/20	25A*2
Number of MPPT trackers	2	2	2	2	2
Strings per MPPT trackers[A]	2	2	2	2	2
<b>AC side/ output parameters</b>					
AC Nominal Power	6KW	8KW	10KW	15KW	20KW
Maximum AC apparent power	6.6KVA	8.8KVA	11KVA	16.5KVA	22KVA
Nominal AC Voltage	3/N/PE 230V/400V				208Vac/400Vac
AC grid frequency/range [Hz]	50Hz/60Hz				50,60/±4.5
Maximum output current [A]	15	15	17	23	30
Power Factor [%]	0.8leading-0.8lagging				
Harmonics	<1.5%				<3%
<b>Efficiency</b>					
Maximum conversion efficiency[%]	98.2	98.4	98.4	98.4	98.4
European efficiency[%]	97.7%	97.7%	97.9	98.1	98.1
MPPT efficiency[%]	99.9				
<b>Safety and protection</b>					
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 varistors(thermally protected)	Yes				
<b>General Parameters</b>					
Dimension(L/W/H)[mm]	510/ 584/ 272mm				607*540*271.5
Weight (KG)	35KG				47.5KG
Operating temperature range	-25°C...+60°C				
Degree of protection(according IEC60529)	IP65				
Climatic category(according IEC 60721-3-4)	4K4H				
Internal consumption: (night) Topology	<1W				
Cooling concept	Natural convection				
Display	LCD				
Humidity	0-95%,no condensation				
Communication	Wi-Fi / GPRS(optional)				
Warrenty:5/10/20	yes / opt. / opt.				

## Zero export controller(limiter)

Vitronics 's limiter is zero-export power control device to limit the excess power feed into grid, it could optimize your PV power self-consumption

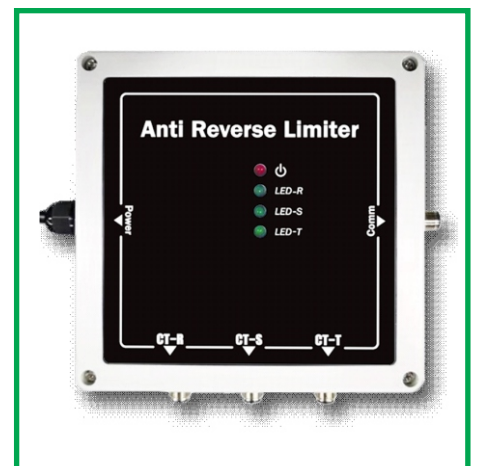
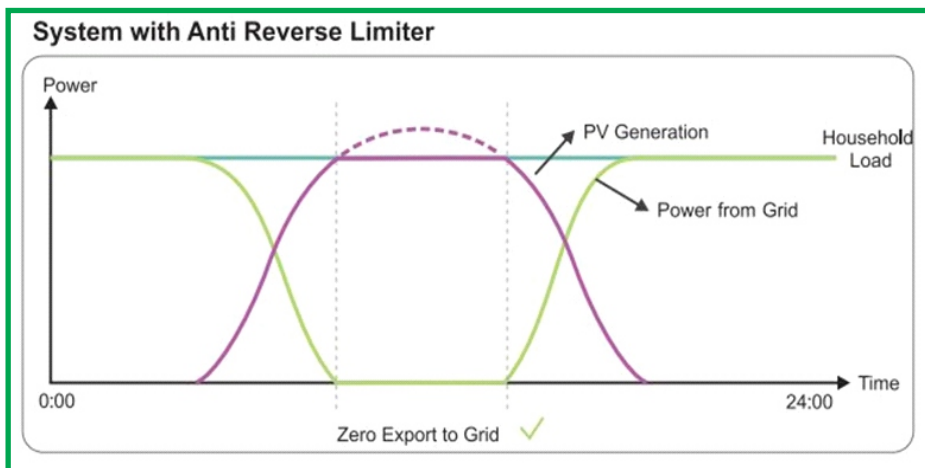
Zero export limiter is Vitronics 's Energy management solution for the solar system, which not be allowed to export the pv power into the grid, or limit the power that can be exported to a specific limit.

Export limitation is integrated into the inverter firmware - install only an Anti reverse limiter

Fast Response Time - ensuring that even with rapid changes in load consumption and PV production the exported power does not exceed the limit

Failsafe Operation - the operation is designed to guarantee that the exported power will never exceed the preconfigured limit under any fault

In a multi-inverter system, one inverter will serve as the energy manager



## Our Other Power Product



**VITRONICS CONTROLS PVT. LTD.**

S. No. 58/7A/1, Opp. Kheteshwar Ashram, Gokul Nagar, Katraj Kondhwa Road, Kondhwa Bk. Pune - 411 048, India.

Tel. : +91 20 2696 2548, 2696 1311, +91 9404731535

Email: [marketing@vitronicscontrols.com](mailto:marketing@vitronicscontrols.com)