



## Three Phase Grid-tied Solar Inverter

4KW Trinergy TR    6KW    10KW  
5KW                    8KW

### Description

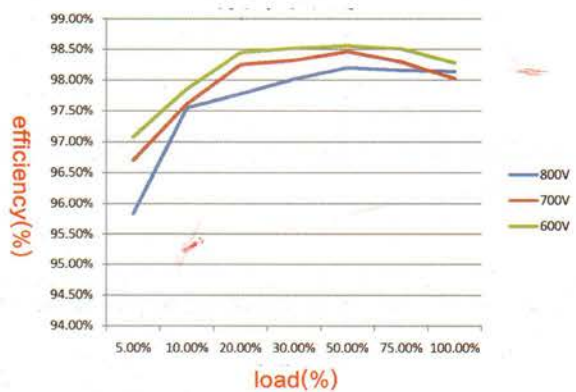
Trinergy TR series three phase inverter is a new generation of PV string inverters which has been developed for residential and small customers. This series adopts the latest technologies and combination of T Topology (three level topology) with SVPWM. This series also has many outstanding advantages such as compact size, light weight, easy installation and maintenance, and most of all, competitive prices.

It also provides flexible system configuration and monitoring solutions for household and commercial systems.

### Features

- The core technologies are from Germany.
- Software optimization for the power grid with much wider adaptability.
- Global integrated monitoring and management, supporting all kinds of portable mobile devices, HMI is optional.
- Wider voltage range, lower starting voltage and higher conversion efficiency.
- Designed with latest thermal simulation technology for longer service life.

### Efficiency curve





## Specification

	4KW	5KW	6KW	8KW	10KW
<b>Input (DC)</b>					
Max. DC voltage (V)	900		1000		
Starting voltage /Min. operation voltage (V)	220/180				
Starting power (W)	150				
MPPT operating voltage range / Rated voltage (V)	200-800/580				
Rated power voltage range (V)	210-800	260-800	300-800	350-800	400 - 800
Number of MPPT / String per MPPT	2/1				
Max. DC Power (W)	4200	5200	6200	8400	10400
Max. DC Current (A) Per MPPT x Number of MPPT	10x2	10x2	10x2	12x2	12.5x2
DC switch	Optional				
<b>Output (AC)</b>					
Rated power (W)	4000	5000	6000	8000	10000
Max. AC Current (A)	7	8.5	10	13	15
Rated AC voltage range	3/PE, 230/400V (320~460V) ;3/PE,220/380V (320~460V). According to VDE0126-1-1, VDE-AR-N4105, CQC, G83/2,C10/11, AS4777/3100.				
Grid frequency	50Hz (47~51.5Hz) / 60Hz (57~61.5Hz) According to VDE0126-1-1, VDE-AR-N4105, CQC, G83/2,C10/11, AS4777/3100.				
Power factor	-0.8~+0.8 (Adjustable)				
THD	< 3% (at rated power)				
AC connection	Three-phase (L1, L2, L3, PE) or (L1, L2, L3, N, PE)				
<b>System</b>					
Cooling method	Natural Cooling method		Smart Cooling method		
Max efficiency	98.10%	98.10%	98.20%	98.30%	98.30%
Euro-efficiency	97.50%	97.60%	97.70%	97.80%	97.80%
MPPT efficiency	99.9%				
Degree of protection	IP65				
Self-consumption (at night)	<0.5W				
Topology	Transformerless				
Operating temperature range	-25℃~+60℃ (derate after 45℃)				
Relative humidity	0~95%, no condensation				
Protection	DC isolation monitoring, grounding fault monitoring, island protection, overvoltage and short circuit protection, etc				
Noise	< 30dB		< 50dB		
<b>Display and communication</b>					
Display	2.1 inches LCD display, support backlit display				
System language	English, Chinese, German, Dutch				
Communication interfaces:	RS485 (Standard), WiFi, Ethernet (Optional)				
<b>Mechanical parameters</b>					
Dimension (H x W x D mm)	530x360x150		575x360x150		
Weight (kg)	22		30		38
Installation	Wall mounting				
<b>Others</b>					
DC terminal	BC03A, BC03B ( PV-FT-CF-C-4-300-BU (-); PV-FT-CM-C-4-300-RD (+), Helios H4 4mm <sup>2</sup> )				
Certifications	VDE0126-1-1, VDE-AR-N4105, G59/3, C10/11, AS4777/3100, CQC EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA, LVRT				
Factory warranty (years)	5 (standard) / 10, 15, 20 (optional)				