



Three Phase Grid-tied Solar Inverter 6KW

Description

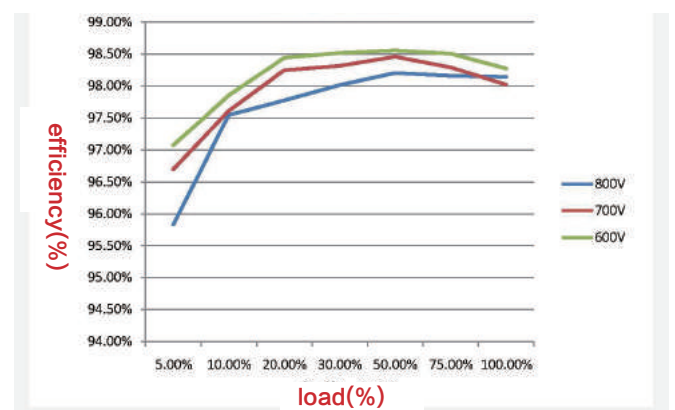
Trinergy TR series three phase inverter is a new generation of PV string inverters which has been developed for residential and small customers. This series adopts the latest technologies and combination of T Topology three level topology with SVPWM. This series also has many outstanding advantages such 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

6KW	
Input (DC)	
Max. DC voltage (V)	900
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)	300-800
Number of MPPT / String per MPPT	2/1
Max. DC Power (W)	6200
Max. DC Current (A) Per MPPT x Number of MPPT	10x2
DC switch	Optional
Output (AC)	
Rated power (W)	6000
Max. AC Current (A)	10
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)
System	
Cooling method	Natural Cooling method
Max efficiency	98.20%
Euro-efficiency	97.70%
MPPT efficiency	99.9%
Degree of protection	IP65
Self-consumption (at night)	<0.5W
Topology	Transformerless
Operating temperature range	-25°C~+60°C (derate after 45°C)
Relative humidity	0~95%, no condensation
Protection	DC isolation monitoring, grounding fault monitoring, island protection, overvoltage and short circuit protection, etc
Noise	< 30dB
Display and communication	
Display	2.1 inches LCD display, support backlit display
System language	English, Chinese, German, Dutch
Communication interfaces:	RS485 (Standard), WiFi, Ethernet (Optional)
Mechanical parameters	
Dimension (H x W x D mm)	530x360x150
Weight (kg)	22
Installation	Wall mounting
Others	
DC terminal	BC03A, BC03B (PV-FT-CF-C-4-300-BU (-); PV-FT-CM-C-4-300-RD (+), Helios H4 4mm ²)
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)