Three Phase Grid Tie Solar Inverters

Accessoires

WiFi 200 / GPRS
Via RS485 interface

Data Webbox
Support up to 16 inverters

APPs
for iSO and Android

Web monitoring

Description

Prostar three phase inverter is a new generation of PV string inverters which has been developed for residential and small commercial customers.This series adopts the latest technologies and combination of T type 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.

ACT witness Lab certified by TÜV SÜD

G83/G59 C10/11
TF3.2.1 MEA PEA

Specification

	BG4KTR	BG5KTR	BG6KTR	BG8KTR	BG10KTR
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)	210-800	260-800	300-800	400-800	450 - 800
Number of MPPT / String per MPPT	2/1				
Max. DC Power (W)	4200	5200	6200	8300	10400
Max. DC Current (A) Per MPPT x Number of MPPT	10x2	10x2	10x2	12x2	12x2
DC switch	Optional				
Output (AC)					
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)				
System					
Cooling method	Natural Cooling method				
Max efficiency	98.10%	98.10%	98.20%	98.20%	98.20%
Euro-efficiency	97.50%	97.60%	97.70%	97.70%	97.70%
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 ciruit protection, etc				
Noise	< 30dB			< 50dB	
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			575x360x150	
Weight (kg)	20			23	
Installation	Wall mounting				
Others					
DC terminal	BC03A, BC03B (PV-FT-CF-C-4-300-BU (-); PV-FT-CM-C-4-300-RD (+), Helios H4 4mm²)				
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)				