

THREE PHASE PV INVERTER : TRINERGY PLUS SERIES

Description:

TRINERGY PLUS SEREIS three-phase grid-tied solar inverters adopt the latest technologies combination of T type three level topology and SVPWM, providing flexible system configuration and monitoring solutions for household, commercial and power plant systems.



3 phase
10 - 30kW
Grid-Tied PV Inverter

Characteristics:

- Dual MPPTs work independently and allow unbalance input power. One string maximum input is up to 60% of Max. DC power
- High efficiency and stable performance at entire input voltage and output power range
- Max. efficiency is up to 98.6%
- Wide input voltage range gives more possibilities for accepting different type of PV modules
- Bus capacitor adopts advanced film capacitor, designed with the latest thermal simulation technology for longer lifespan.
- Integrated intelligent DC combiner and surge protection improve system's flexibility and lower the cost.
- 12V 100mA auxiliary DC power interface is optional for system expansion
- AC output power is adjustable during 1 ~ 100%
- Reactive power control and power factor adjustable : 0.8 leading ~ 0.8 lagging
- RS485, Ethernet, WIFI communication modes are optional for realizing multiple monitoring solutions via PC, mobile phones, internet etc. platforms.

Specification:

COMMERCIAL

Model	TRINERGY PLUS 10kW	TRINERGY PLUS 15kW	TRINERGY PLUS 20kW	TRINERGY PLUS 25kW	TRINERGY PLUS 30kW
Input (DC)					
Max. DC Voltage (V)	1000				
Starting Voltage (V)	200		300		
Min. Operation Voltage (V)	180		280		
MPPT Operating Voltage Range (V)	180 - 800 / 610		280 - 800 / 610		
Rated Power Voltage Range (V)	320 - 800	400 - 800	450 - 800	480 - 800	480 - 800
Number Of MPPT / String Per MPPT	2 / 3 or 2 / 2 (Integrated Combiner Box)				
Max. DC Power (W)	10400	15600	20800	26000	31200
MAX.DC Current (A)	19 × 2		21 × 2		25 × 2
Per MPPT x Number of MPPT	19 × 2		21 × 2		25 × 2
DC Switch	Optional		Integrated		
Output (AC)					
Rated Power (W)	10000	15000	20000	25000	30000
Max.AC Current (A)	16	24	32	40	48
Rated AC Voltage Range	3 / N / PE, 230 / 400V, (320 ~ 460V) ; 3 / N / PE, 220 / 380V, (320 ~ 460V) According to VDE0126-1-1, VDE-AR-N4105, CQC, G59 / 3, C10 / 11, AS4777 / 3100, PEA				
Grid Frequency	50Hz (47 ~ 51.5Hz) / 60Hz (57 ~ 61.5Hz) According to VDE0126-1-1, VDE-AR-N4105, CQC, G59 / 3, C10 / 11, AS4777 / 3100, PEA				
Power Factor	-0.8 ~ +0.8 (Adjustable)				
THD	< 3% (at rated power)				
AC Connection	Three-phase (L1 · L2 · L3 · N · PE)				
System					
Cooling	Smart Cooling				
Max. Efficiency	98.20%	98.30%	98.40%	98.40%	98.50%
Euro-efficiency	97.60%	97.80%	98.00%	98.00%	98.00%
MPPT Efficiency	99.9%				
Protection Degree	IP65				
Consumption At Night	< 0.5W				
Isolation Mode	Transformerless				
Operating Temperature	-25°C ~ +60°C, derate after 45°C (-77°F ~ +140°F, derate after 113°F)				
Relative Humidity	0 to 95%, no condensation				
Protection	DC isolation monitoring, grounding fault monitoring, island protection, overvoltage and short circuit protection, etc				
Noise	< 50dB				
Display And Communication					
Display	3.5 inches LCD display, support backlit display				
System Language	English, Chinese, German, Dutch				
Key	Integrated				
Communication Mode	RS485 (Standard), WiFi, Ethernet (Optional)				
Mechanical Parameters					
Diminsion (H × W × D mm) in mm	480 × 610 × 204		660 × 525 × 220		
Weight (kg)	38 (84pound)		48 (106pound)	50 (110pound)	52 (115pound)
Installation	Wall mounting				
Others					
DC Terminal	MC4 water-proof terminal				
Certifications	VDE0126-1-1, VDE-AR-N4105, CQC, G59 / 3, C10 / 11, AS4777 / 3100, EN61000-6-1:4, EN61000-11:12, IEC62109-1:2010, PEA, LVRT		-1-1, VDE-AR-N4105, G59 / 3, C10 / 11, AS4777 / 3100, CQC, EN61000-6-1 : 4, EN61000-11:12, IEC62109-1:2010, PEA, ZVR		