

TG Series

Hybrid Solar Inverter

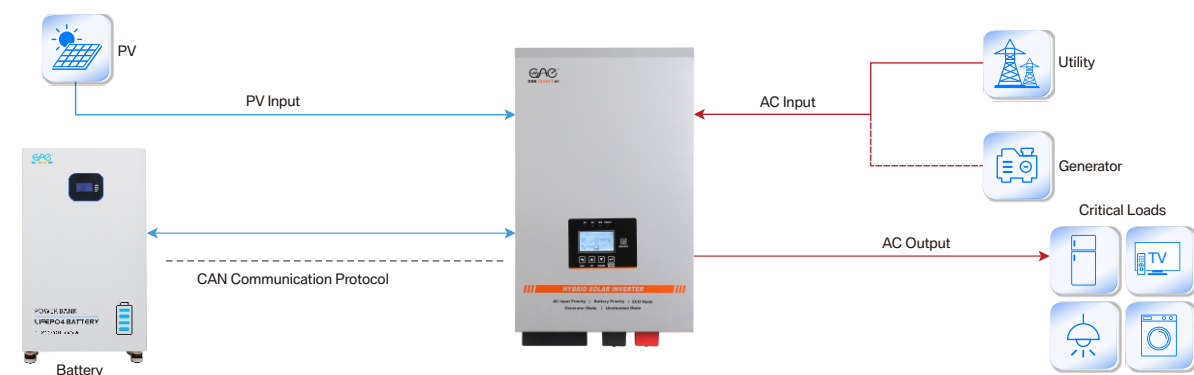


The TG Series is a professional low-frequency toroidal transformer inverter charger for backup, off-grid, and energy storage systems. It features pure sine wave output (1.5–10KW rated, 4.5–30KW surge power), ≤4ms UPS transfer, built-in AVR stabilizer, and ≥85% transfer efficiency. It includes an adjustable AC charger (up to 35A) compatible with lead-acid and lithium batteries, integrated MPPT solar controller, and RS485 communication with optional WIFI module.

FEATURES

- Rated power 1.5KW-10KW.
- Pure sine wave AC output.
- Clear display for real-time system monitoring.
- With CAN/RS485 for BMS communication.
- High efficiency, low loss, long-term reliability.
- Compatible with LiFePO4 batteries.
- WiFi remote monitoring (optional).

PRODUCT CONNECTION DIAGRAM



Model	TG-152	TG-202	TG-302	TG-402	TG-502	TG-602	TG-103
Rated Power	1.5KW	2KW	3KW	4KW	5KW	6KW	10KW
Surge Power	4.5KW	6KW	9KW	12KW	15KW	18KW	30KW

AC Input & Output							
Voltage	220VAC						
Selectable Voltage Range	165-275VAC (220VAC)						
Frequency Range	50Hz/60Hz automatic recognition						
AC Voltage Regulation (BATT. Mode)	(DC Batt.mode)220vac±3%						
Transfer Time	≤4ms						
Wave Form	Pure Sine Wave						
Transformer Type	Toroidal						
Transfer Efficiency	≥85%						

Battery					
Battery Voltage	12V/24V	24V	24V/48V	24V/48V	48V
Type	Gel/SLA/AGM/Water/Lithium(lifepo4) Battery				
DC Charge Voltage	12~16VDC(12V)/20~32VDC(24V)/40~64VDC(48V)				
Overcharge Protection	Battery voltage ≥16VDC (12V) ≥32VDC (24V) ≥64VDC (48V), stop charging after 60s alarm				

Solar Charge & Ac Charger					
Maximum PV Array Open Circuit Voltage	150VDC				
Maximum PV Array Power	570W(12V)/1130W(24V)	1700W(24V)	1700W(24V)/3400W(48V)	2260W(24V)/4540W(48V)	5600W(48V)
Maximum AC Charge Current	35A(adjustable)				
Maximum Solar Charge Current	40A MPPT	60A MPPT		80A MPPT	100A
Maximum Charging Current	75A	95A		115A	135A

Working mode							
01 Mode	AC mains priority mode						
02 Mode	ECO mode						
03 Mode	DC battery priority mode						
04 Mode	Generator mode						
05 Mode	Unattended mode						

Communication Portal							
Type	RS485, available for wifi box & external control screen						

Physical							
Dimension, D*W*H(MM)	610*490*210	610*490*280		760*500*290		882*580*240	
G.W.(KGS)	19.5	22	25	32	35	36	65

Environment							
Humidity	0~95% (NO CONDESNSATION)						
Operating Temperature	0~60℃						
Storage Temperature	0~60℃						