



Commercial Residential Hybrid Inverters 100-450VDC 45A IP65

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: GFS
- Certification: CE
- Model Number: TLIS
- Minimum Order Quantity: 50 units
- Price: consult prices online
- Packaging Details: consult online
- Payment Terms: T/T



GFS-TL I SERIES Photovoltaic Grid Tie Inverter

Product Specification

- Maximum Efficiency: 98%
- MPPT Tracking Voltage Range: 100-450VDC
- Max Input Voltage: 500VDC
- Power Factor: 1.0
- Max Current (AC Output): 45A
- Protection Degree: IP65
- Highlight: **450V residential hybrid inverters,
100v residential mppt solar charge controller,
IP65 hybrid power solutions**

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Product Description

High-Efficiency Hybrid Inverters Ideal for Residential and Commercial

Main Features

- Max efficiency to 98%.
- Wide input voltage range . high efficient MPPT.
- Multiple inverters can be operated in parallel.
- Without insulated transformer . strong IP65 protection.
- Small and light , easy to installation .
- LCD display.
- Flexible monitoring mode, support RS232/RS485, WIFI/GPRS.

Protection Function

DC polarity reverse connection protection, Anti-island, input overvoltage, output overcurrent, output short circuit, overheat, overload, ground fault, grid overvoltage/low voltage, grid high/low frequency, grid monitoring, RCD testing.

Certification

VDE-AR-N4105, VDE0126, EN 61000, IEC/EN 62109, G59, G83, AS4777, AS/NZS 3100, IEC60068, IEC61683 LVD DIRECTIVE 2014/35/EU

Product Description:

This is a high-efficiency inverter with MPPT technology, designed for optimized performance in solar energy applications. It features a wide input voltage range and supports multiple parallel connections, allowing flexibility in large-scale installations. Its IP65 protection ensures durability in outdoor environments, and the built-in LCD provides real-time monitoring and operational data. Additionally, it comes equipped with advanced protection features, including overvoltage and anti-island protection, ensuring both the safety and reliability of your solar power system.

DCINPUT				
Max.DC input power	3200W	5400W	6500W	10900W
Max.DC input voltage	500VDC	500VDC	500VDC	500VDC
Max.DC input current	13A	26A	28A	50A
MPPT Tracking voltage range	100-450VDC	100-450VDC	100-450VDC	100-450VDC
MPPT Tracking voltage Number	1	1/2	1/2	1/2
Power off/on voltage	100V/200VDC	100V/200VDC	100V/200VDC	100V/200VDC
ACOUTPUT				
Rated Power	3000W	5000W	6000W	10000W
Output voltage Range	190-270VAC	190-270VAC	190-270VAC	190-270VAC
Rated voltage	110V/230VAC	110V/230VAC	110V/230VAC	110V/230VAC
Frequency	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz	50Hz/60Hz
Phase number	Single Phase L+N+PE	Single Phase L+N+PE	Single Phase L+N+PE	Single Phase L+N+PE
Power Factor	1	1	1	1
Max Current	13.6A	23A	27A	45A
Current THD(AT Rated Power)	<3.5%	<3.5%	<3.5%	<3.5%
Max Efficiency	97.3%	97.3%	98%	98%
Europe Efficiency	96.5%	97.1%	97%	97%
MPPT Efficiency	99.5%	99.5%	99.5%	99.5%

STRUCTURE				
Protection Degree	IP65	IP65	IP54	IP65
Cooling Method	Natural Cooling	Natural Cooling	Interlligent Air Cooling	Interlligent Air Cooling
Display	LCD	LCD	LCD	LCD
Isolation type	Non-isolated	Non-isolated	Non-isolated	Non-isolated
Topology	No Transformer	No Transformer	NoTransformer	No Transformer

Input Terminal	MC4	MC4	MC4	MC4
Output Terminal	Connector terminals	Connector terminals	Connector terminals	Connector terminals
Data interfaces	RS232/RS485 WiFi/GPRS(Optional)	RS232/RS485 WiFi/GPRS(Optional)	RS232/RS485 WiFi/GPRS(Optional)	RS232/RS485 WiFi/GPRS(Optional)
GENERAL PARAMETERS				
Noise	<50dB	<50dB	<50dB	<50dB
Night power Consumption	<0W	<0W	<0W	<0w
Operation temperature Range	-10°C~60°C	-10°C~60°C	-10°C~60°C	-10°C~60°C
Storage temperature	-15°C~60°C	-15°C~60°C	-15°C~60°C	-15°C~60°C
Relative humidity	0~100%	0~100%	0~100%	0~100%
Altitude	≤2000m	≤2000m	≤2000m	≤2000m
Size(W*H*D)	335*365*140mm	405*415*190mm	410*445*210mm	530*680*240mm
Weight	14kg	22kg	26kg	27kg
Note:can be customized according to customer requirements				

Application:

This inverter is ideal for a range of solar energy systems, from residential setups to large commercial installations. Its high efficiency and robust protection features make it suitable for environments requiring stable, continuous energy output. The flexible monitoring options, including RS232/RS485 and WIFI/GPRS support, allow seamless integration with remote monitoring systems, providing ease of management for energy infrastructures. Additionally, its compact design makes it simple to install and maintain.

Shipping Methods

Supports global air and sea shipping.



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