

FTS Series

Hybrid Solar Inverter



The FTS Series is a professional low-frequency toroidal transformer inverter charger for backup, off-grid, and energy storage systems. It features pure sine wave output (1.5–6KW rated, 4.5–18KW 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 (optional WIFI module).

FEATURES

- Rated power 1.5KW-6KW.
- 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	FTS-152	FTS-202	FTS-302	FTS-402	FTS-502	FTS-602
Rated Power	1.5KW	2KW	3KW	4KW	5KW	6KW
Surge Power	4.5KW	6KW	9KW	12KW	15KW	18KW

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 12V/24V/48V 24V/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	900W(12V)/1700W(24V)/3400W(48V)
Maximum AC Charge Current	35A(adjustable)
Maximum Solar Charge Current	30/60A MPPT (OPTIONAL) 60A MPPT
Maximum Charging Current	95A 95A

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 Port	
Type	RS485, available for wifi box & external control screen

Physical	
Dimension, D*W*H(MM)	600*380*280 780*380*280
G.W.(KGS)	19 21 23 30 32 36

Environment	
Humidity	0~95% (NO Condensation)
Operating Temperature	0~60°C
Storage Temperature	0~60°C