

FT Series

Pure Sine Wave Inverter



The FT Series is a professional low-frequency transformer inverter charger for backup, off-grid, and energy storage systems. It features pure sine wave output, 1.5KW-6KW rated power, 4.5KW-18KW surge power, ≤4ms UPS transfer, and includes a 35A adjustable AC charger, compatible with lead-acid and lithium batteries via RS485 (with 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	FT-152	FT-202	FT-302	FT-402	FT-502	FT-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		

AC Charger	
Maximum AC Charge Current	35A (adjustable)

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)	595*380*270
G.W.(KGS)	17
	19
	21
	31
	33
	35

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