

Model	FT-102	FT-152	FT-202	FT-302	FT-402	FT-502	FT-602
Rated Power	1KW	1.5KW	2KW	3KW	4KW	5KW	6KW
Peak Power	3KW	4.5KW	6KW	9KW	12KW	15KW	18KW
Nominal battery voltage	12/24VDC	12/24/48VDC			24VDC/48VDC		
INPUT							
DC input range	10.5-16VDC (12V) / 21-32VDC (24V) / 42-64VDC (48V)						
AC Mains input range	165-275VAC (220VAC)						
AC input frequency	50Hz: 45-65Hz / 60Hz: 55-65Hz±0.5Hz (50Hz/60Hz automatic recognition)						
PROTECTIONS							
Low battery alarm	≤10.5VDC (12V) / ≤21VDC (24V) / ≤42VDC (48V) alarm						
Low battery protection	≤10VDC (12V) / ≤20VDC (24V) / ≤40VDC (48V) automatic shutdown						
High battery alarm	Battery voltage ≥16VDC (12V) ≥32VDC (24V) ≥64VDC (48V), stop charging after 60s alarm						
High battery protection	≥17VDC (12V) / ≥34VDC (24V) / ≥68VDC (48V) automatic shutdown						
Overload protection	loading>110%, shutdown after 60s alarm, loading>115%, shutdown after 20s alarm						
High temperature	Built-in temperature real time sensor, ≥85°C alarm, ≥90°C automatic shutdown						
Short circuit protection	Automatic shutdown						
OUTPUT							
Transfer efficiency	≥85%						
Output voltage	(DC battery mode) 220VAC±2%						
Output frequency	(DC battery mode) 50Hz/60Hz±1%						
Output wave form	Pure sine wave						
Output voltage	(AC mains mode) stable 220±10% output (built-in AVR stablizer)						
AVR output stablizer	AC mains<170VAC±5% swtich to DC battery mode, AC mains>180VAC ±5% return to AC mains mode;						
	AC mains>275VAC±5% swtich to DC battery mode, AC mains<255VAC ±5% return to AC mains mode;						
Other							
Transfer time	Bult- in AC bypass replay (≤4ms)						
Display	LCD Display with function buttons						
Cooling system	Intelligent cooling fan control system						
	≤45°C slow fan, ≥45°C fast fan						

Communication	RS485						
<b>AC Charger</b>							
Supported battery types	SLA/GEL/WATER/LI-ION						
AC charging Voltage	12~16VDC(12V)/20~32VDC(24V)/40~64VDC(48V)						
AC charging current	0-35A adjustable						
3 Stages charging	Boost charging, direct charging, float charging						
<b>Working mode</b>							
Line priority mode	Always use AC mains as priority input to provide AC output and automatically charge the battery, only stops charging when battery is fully charged, and only starts DC to AC converting until AC mains is off						
ECO mode	Same to Line priority mode, but Loading $\leq$ 10% inverter will automatic shutdown, loading $\geq$ 11%-100% automatic turn on						
Battery priority mode	Always use DC battery as priority input to provide AC output, for 12V system, when battery $\geq$ 13V, starts DC to AC converting; when battery $\leq$ 10.5V during converting, switch to AC mains mode to provide AC output and automatically start charging the battery (for 24V/48V system, multiply by 2/4 accordingly)						
Generator mode	Same as Line priority mode. Generator output should within 165~275vac and 45~65hz.						
Unattended mode	the inverter will always on/stand by when under this mode, when battery reach low battery voltage point , the inverter will auto shut down ac output and enter stand by status. Once solar controller charge battery back to restore point, the inverter will restart the ac ouput.						
<b>Environment</b>							
Temperature	-20~+75°C						
Humidity	< 95%						
<b>Mesurement</b>							
Product size (mm)	475*300*185				650*300*185		
Packing size (mm)	600*380*270				780*380*280		
Net Weight (kg)	13	13,5	15	17	26	27,5	30
Gross Weight (kg)	15	17	19	21	31	33	35
*Product specifications are subject to change without further notice							