

FT 11 SERIES
1 KVA ~ 10 KVA
PF 1.0



Specifications

MODEL	FT 1000	FT 2000	FT 3000	FT 6000	FT 10000
Capacity	1 KVA	2 KVA	3 KVA	6 KVA	10 KVA
INPUT					
Rated voltage	100V / 110V / 115V / 120Vac			208V / 220 Vac	
Voltaje range	(55-145) ± 5 Vac (60% load), (65-145)± 5 Vac (70% load) (75-145) ± 5 Vac (80% load), (82-145)± 5 Vac (100% load)			Half load (115-295) ± 5 Vac Full load (156 -295) ± 5 Vac	
Frequency	45 - 55Hz ± 05% or 54 - 66 Hz ± 0,5% (auto-sense)			40 -70 Hz ± 0,5% (auto-sense)	
Power Factor	≥ 0,98			≥ 0,99	
Bypass voltage range	(95-135) ± 5 Vac			160V - 252 Vac	
OUTPUT					
Voltage	100V / 110V/ 115V / 120Vac (settable via LCD)			110V / 120 Vac; 220V / 240 Vac	
Voltage regulation	± 1%				
Frequency	Synchronized with utility in mains mode: 50/60 ± 0,05 Hz in battery mode				
Waveform	Sinusoidal				
Crest Factor	3:1				
Harmonic distortion	≤ 3 % (linear load); ≤ 5% (non - linear load)			≤ 1 % (linear load); ≤ 5% (non - linear load)	
Transfer time	Mains mode to battery mode: 0 ms			Mains mode to battery mode: 0 ms	
	Inverter mode to bypass mode: 0 ms			Inverter mode to bypass mode: 0 ms	
Overload capability	105% -150%: transfer to bypass in 30 s ;			105% - 125% trnsfer to bypass in 10 min;	
	> 150 % : transfer to bypass in 300 ms.			125% - 150%: transfer to bypass en 1 min;	
EFFICIENCY					
Mains mode	≥ 90%			≥ 92%	
Battery mode	≥ 91%			≥ 93%	
ECO mode	≥ 98%			≥ 98%	
BATTERIES					
DC voltage	24V	48V	72 V	192V	
Inbuilt battery of standard model	2 X 9 Ah	4 X 9 Ah	6 X 9 Ah	16 X 7 Ah	16 X 9 Ah
Charging current	1 A Standard model				
	6A Long time model			1A / 3A / 5A / 8A	
Typical recharge time	8 h				
ALARM					
Utility failure	Beep / 4s				
Battery low	Beep / 1s				
Overload	Beep twice / 1s				
UPS fault	long Beep				
ENVIRONMENT					
Humidity	0 ~ 90 % RH @ 0 ~ 40 C (non -condensing)				
Noise level	≤ 50 dB (1m)			≤ 55 dB (1m)	
COMMUNICATIONS					
RS232 (standard) / USB (option)	Supports Windows 98/2000/2003/XP/Vista/2008/windows 7/8/10				
SNMP (option)	Power management from SNMP manager and web browser				
OTHERS					
Long time model	WxDxH (mm)	144x357x215	190x452x341	262x690x455	
Standard model	WxDxH (mm)	144x357x215	190x452x342	262x690x735	

All specifications subject to change without notice
Custom - made specifications are acceptable

Features

- High frequency and true double- conversion
- DSP digital control technology
- Input power factor correction (PFC)
- Wide input voltage range
- Output power factor 1.0
- Cold start
- Auto sensing frequency
- ECO mode operation for energy saving
- Selectable output voltage via LCD
- Output bypass settable for 1,2,3 KVA via LCD
- 50Hz/60Hz frequency conversion mode available on 6 ~ 10 KVA
- 6 ~ 10 KVA built in output isolation transformer
- Selectable battery low voltage via LCD
- Power- on self test
- Advanced battery mangement (ABM)
- Short circuit and overload proteccion
- Automatic charging in OFF mode
- Fan speed auto control when loads varies
- Standard RS232 communication port and Rj45 protection
- Optional USB/SNMP communication port
- Optional emergency power off (EPO)
- Optional extension battery bank
- Optional manual bypass on 6- 10 KVA
- Optional N+X redundancy parallel on 6- 10 KVA

Rear Panel

1. Overcurrent Protection
2. AC input
3. Modem /Tel/Fax
4. DC input
5. Outlet
6. Fan
7. RS 232
8. USB (optional)
9. EPO (optional)
10. Manual bypass (optional)
11. SNMP /AS400 (optional)
12. Breaker
13. Parallel card (optional)
14. BAT_NTC (optional)

