

# FT 33 SERIES UPS

10KVA - 40 KVA (3 : 3)  
PF 1.0



## Features

- High frequency online double – conversion with DSP control
- Modular design high reliability easy maintenance
- Input power factor correction (PFC)
- ECO mode operation for energy saving
- Input voltage range 60 -160 Vac; autosensing 50 / 60 Hz frequency
- Support two modes of frequency conversion: 50Hz input / 60 Hz output and 60Hz input / 50 Hz output
- Input power factor > 0.99; Input THDi ≤ 3%; output THDv ≤ 3%
- Output power factor: 1.0
- High efficiency: load > 15%, efficiency ≥ 90%, load > 50%, efficiency ≥ 96%
- Share battery pack in parallel operation or separate battery pack for different UPS
- Flexible charge parameter and battery configuration setting, selectable battery number: 16 pcs / 18 pcs / 20 pcs
- Advanced intelligent battery management technique, prolong the working life of de battery effectively
- Support battery cold start and mains supply self – starting
- 5.7 inches LCD touch screen, friendly human and machine interface
- Complete hardware and software protection function, robust self – diagnostic function, and abundant even log to check
- Perfect password control technology, including the first power - on password control and maintenance password control
- Reminders of battery out of warranty
- Standard emergency power off (EPO)
- Standard RS 232, USB, RS 485, dry contacts communication port
- Optional SNMP communication port
- Optional N+X redundancy parallel up to 8 Units
- Optional built - in isolation transformer
- Optional battery temperature compensation

## Specification

Model	FT 3310	FT3315	FT3320	FT3330	FT3340
Capacity	10 KVA	15 KVA	20 KVA	30 KVA	40 KVA
<b>Input</b>					
Rated input voltage	120 V ( phase voltage) or 208 V (line voltage)				
Rated frequency	40 - 70 Hz				
Input voltage range	105 - 260 Vac (line voltage) or 60 - 150 Vac (phase voltage) Load ≤50 %				
	130 - 260 Vac (line voltage) or 75 - 150 Vac (phase voltage) 0%< Load ≤70 %				
	160 - 260 Vac (line voltage) or 95 - 150 Vac (phase voltage) 70%<Load ≤100 %				
Input frequency range	40 - 70 Hz				
Input mode	Three - phase five - wire system				
Input power factor	≥ 0,99				
Total harmonic distortion (THDi)	≤3 %				
Bypass voltage range	208 Vac (line voltage) or 120 Vac (phase voltage) (-40% - +20% optional)				
<b>Output</b>					
Rated voltage	208/220/230/240 Vac (line voltage) or 110/115/120/127 Vac (phase voltage)				
Voltage regulation	±1%				
output power factor	1,0				
Total harmonic distortion (THDv)	≤1% (lined load); ≤ 3% (unlined load )				
Output current peak factor	3:1				
Waveform	Sinusoidal				
Output frequency	The same as bypass (mains mode)				
	50/60 Hz ± 0,05 Hz				
Inverter overload capability	102%<loads ≤127%, switch to bypass after 20 min				
	127%<loads ≤150%, switch to bypass after 10 min				
	loads>150%, switch to bypass after 60seg				
Bypass overload capability	≤150%, long term; >150%, continue for 60 seg				
Switch time	0 ms				
<b>System</b>					
System efficiency	≥96% (normally mode); ≥98% ( ECO mode )				
Display	5,7 Inches LCD touch screen				
Alarm	Battery mode, Battery voltage low, fans,fault, etc.				
Max. Parallel numbers	8				
EMI	EN 62040-1; EN62040-2; IEC 62040-3				
EMS	IEC61000-4-2 (ESD)				
	IEC61000-4-3 (RS)				
	IEC61000-4-4 (EFT)				
	IEC61000-4-5 (surge)				
<b>Communications</b>					
RS 232/ RS 4-485/ USB / dry contacts	Supports Windows 98 / 2000 / 2003 / XP / Vista / 2008 / 7 / 8 / 10				
SNMP (option)	Power management from SNMP manager and web browser				
<b>Batteries</b>					
Battery configuration (208 V system)	± 96VDC (positive/negative battery two group, default ±16 pcs, ±8 -±10 pcs optional)				
Inbuil battery of standard model	Max. 36 x 12 / 38 Ah				
Maximum charging current	15 / 18 A				
<b>Others</b>					
Working temperature	0 - 40 C				
Storage temperature	-25 C - 55 C				
Working relative humidity	0% - 95% ( without condensation)				
Noise	<60dB				
Working attitude	<3000 m (power should be less if higher than this height)				
Color	Black				
Dimension ( WxDxH)	680mmx980mmx1360mm				
Packing dimension (WxDxH)	680mmx980mmx1540mm				
Net weight (KG)	196		200		203
Gross weight (KG)	205		210		212

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