



# FRAME MOUNTED UPS



## FM33 20KVA~180KVA UPS

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# FRAME MOUNTED UPS

## • FM33 20-180KVA UPS



### INTRODUCTION

- FM33 20-180KVA use Frame Design, suitable for Standard 19" Network Cabinet. It adopts Online Double Conversion Technology, which can completely eliminate all kinds of grid problems and provide customers with stable and pure sinusoidal power supply protection.

### SCENARIOS

- Standard 19" Network Cabinet of Computer Room, IDC Room, Integrated Comprehensive Cabinet, etc.

### FEATURES

- Frame Mounted Design
- Wide Input Voltage Range
- Online Double Conversion and Three Level Technology
- DSP Digital Control Technology
- Output Power Factor 1
- N+X Redundancy
- Communications: RS485/Relay Card/USB/SNMP Option
- The number of Battery Cells is 30-50 Adjustable

### BENEFITS

- Wide input voltage range adapt to harsh power grid
- DSP Technology greatly improve the system reliability
- 4.3" Color Touch Screen, Graphic Display, easy to operate
- Intelligent Battery Management Extend Battery Life

# FRAME MOUNTED UPS

## • FM33 20-180KVA UPS SPECIFICATION

Model		FM33060	FM33120	FM33180	
Capacity	Frame	20-60KVA	20-120KVA	20-180KVA	
	Module	20KVA/25KVA/30KVA			
Max. Module Number		2	4	6	
Input	Phase	3 Phase 4 Wires and Ground			
	Rated Voltage	380/400/415VAC			
	Voltage Range	138~485VAC			
	Frequency Range	40Hz~70Hz			
	Power Factor	≥ 0.99			
	Current THDi	≤3% (100% Linear Load)			
	Bypass Voltage Range	Max. voltage: 220V; +25% (optional +10%, +15%, +20%); 230V: +20% (optional +10%, +15%); 240V: +15% (optional +10%); Min. Voltage: -45% (optional -20%, 30%)			
	Generator Access	Yes			
Output	Phase	3 Phase 4 Wires and Ground			
	Rated Voltage	380/400/415VAC			
	Power Factor	0.9 or 1			
	Voltage Regulation	±1%			
	Frequency	Utility Mode	±1%, ±2%, ±4%, ±5%, ±10% of the rated frequency (optional)		
		Battery Mode	(50/60 ±0.1%) Hz		
	Crest Factor	3:01			
	THD	≤2% with linear load, ≤5% with non linear load			
	Efficiency	96%			
	Overload	≤110%: to bypass after 60min, ≤125%: to bypass after 10 min, ≤150%: to bypass after 1 min			
Battery	Voltage	±180V/±192V/±204V/±216V/±228V/±240V/±252V/±264V/±276V/±288V/±300VDC			
		(30/32/34/36/38/40/42/44/46/48/50 pcs optional)			
	Charging Current	UPS Cabinet	20A Max.	40A Max.	
	UPS Module	10A Max.			
Transfer Time		Utility to Battery: 0ms; Utility to bypass: 0ms			
Protection	Alarm	Overload, Utility Abnormal, UPS Fault, Battery Low, etc.			
	Protection	Short Circuit, Overload, Over Temperature, Battery Low, Fan Fault Alarm			
Communication Interface		RS232, RS485, Intelligent Slot x 2, Dry Contact, SNMP			
Environment	Operating Temperature	0°C~40°C			
	Storage Temperature	-25°C~55°C			
	Humidity	0~95% Non Condensing			
	Alarm	-			
	Altitude	<1500m			
Other	Unit Dimensions (DxWxH)	Frame	780x485x487	780x485x663	
		Module	620x440x86mm		
	Weight (KG)	Frame	45	60	80
		Module	20.8/21/21		
Standards		EN62040-1, EN62040-2			