FE-RM SERIES

RACK-MOUNTED MODULAR ONLINE UPS
10-90KVA (380V/400V/415V)

The FE-RM Series Rack Mounted Modular UPS is scalable, hot-swappable, online double conversion. The power capacity is from 25 to 200kVA/kW, it's the ideal choice for modern data center.

With the latest IGBT three-level and full DSP control
technology, the new FE-RM series delivers the best combination of reliability and flexibility.

Features

- Rack modular design

Modular design, compatible with 19" standard rack cabinet, convenient to be integrated with servers

- High power density

10/15kVA power module in 2U height, saving great amount of space, easy for capacity expansion

- Integrated solution for data center

UPS can be integrated with battery cabinet, PDU and external maintenance bypass, offering excellent choice for data center

- Intelligent charging management

The system intelligently control the whole process of the charging and discharging, effectively improving the life time of the battery

- Flexible configuration

The system based on 10kVA power module can be configured to 3/3, 3/1 and 1/1 without derating

- Friendly interface

7" touch color LCD with graphic display, more information displayed and easier for customer to operate

- Smart sleep function

System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency

- Self-aging mode

Energy internal circle technology, system can run with full load, saving more than 90% energy

Specification

MODEL		FE RM060/10X	FE RM040/10X	FE RM030/10X	FE RM020/10X	FE RM090/15X	FE RM045/15X	FE RM030/15X
System Capacity		60kVA	40kVA	30kVA	20kVA	90kVA	45kVA	30kVA
Power Module Capacity		10kVA/10kW				15kVA/15kW		
Input	Dual Input	Standard						
	Phase	3 Phase+Neutral+Ground, 380V/400V/415V(line-line)						
	Input Voltage Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min phase voltage						
	Rate Frequency	50/60Hz						
	Input Frequency Range	40Hz~70Hz						
	Input PF	>0.99						
	Input THDi	<4% (100% Linear load)						
Bypass	Rate Voltage	380/400/415Vac (line-line)						
	Rate Frequency	50/60Hz						
	Input Voltage Range	Settable, -40%~+25%						
	Bypass Frequency Range	Settable, ±1Hz, ±3Hz, ±5Hz						
	Bypass Overload	125% long term operation; 130% for 10mins; 150% for 1 min; >150% for 300ms				110% long term operation; 130% for 5mins; 150% for 1 min; >150% for 300ms		
Output	Rate Voltage	380/400/415Vac (line-line)						
	Voltage Regulation	1% for balance load; 1.5% for unbalance load						
	Rate Frequency	50/60Hz						
	Frequency Precision	0.1%						
	Output PF	1						
	Output THDu	<1%, Linear load; <5.5%, Non-linear load						
	Crest Factor	3:1						
	Inverter Overload	110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms						
Battery	Voltage	±240Vdc						
	Battery Number	40pcs (Settable: even number from 32 to 44)						
	Voltage Precision	±1%						
	Charge Power	up to 20% * Output active power						
	Battery Cold Start	Optional						
System	Efficiency — AC Mode	95.0%						
	Efficiency — ECO Mode	98.0%						
	Efficiency — Battery Mode	94.5%						
	Display	7.0" color touch screen LCD + LED + keyboard						
	IP Class	IP 20						
	Interface	RS232, RS485, Programmable Dry Contact						
	Option	SNMP Card, Parallel kit, SPD, Power module with battery cold start function						
	Temperature	Operation: 0~40 °C Storge: -40~70 °C						
	Relative Humidity	0~95% Non-condensing						
	Altitude	<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise						
	Noise (1 meter)	56dB @ 50% load						
	Applicable Standards	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3						
Physical	Weight (kg) — Cabinet	70	51	55	42	70	55	42
	Weight (kg) — Power module	15.3					15.5	
	Dimension W*D*H(mm) — Cabinet	485*751*1033	485*697*575	485*751*575	485*697*398	485*751*1033	485*751*575	485*697*398
	Dimension W*D*H(mm) — Power module	436*590*85						