

Customization Oriented **High Stability** **High Reliability**

Typical applications:

- Industrial application
- Semiconductor plant
- Computer room
- Data center
- Precision instrument
- Intelligent equipment



FR-UK33 Series 200-400kVA

FR-UK33 series UPS is Kehua's historic UPS, it brings a new choice for your critical applications. Thanks for 20 years of research and development experience, FR-UK 33 series UPS can be applied to wide application solutions as they possess high cost-effective advantages. With optional dual mains input and a built-in maintenance bypass switch, the system's stability is highly increased. Featuring with upgraded IP grade, replaceable filter screens and feedback protection, FR-UK33 series UPS satisfies your demands of industrial environments. In addition, customization products are available for special requirement.



Features and Advantages

High reliability

- Standard output isolated transformer
- 3 x 2 redundant power design
- No-master-slave N+1 parallel technology
- PCB boards feature with anti-corrosion paint coating

High performance

- $\pm 25\%$ input Voltage
- 40-70Hz Frequency (Mains)
- Double DSP and full digital control
- International IGBT power modules
- Allow 100% three phase unbalance load

Maximum protection

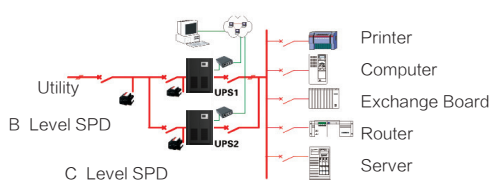
- Overload protection
- Short-circuit protection
- Reverse polarity protection
- Over temperature protection
- High input voltage protection
- Battery overcharge protection
- High/Low output voltage protection

Smart management

- Fancy touch screen
- Intelligent RS232/RS485
- 1000pcs of events logs
- Battery management
- 8+6 dry contact communication signals
- Multi-functional settings to view parameters

Added-value service (options)

- Customizable design
- Battery monitor system – MMBM
- Temperature Sensor
- SNMP adapter & Emergent alarm via SMS/Email
- IP grade upgrade
- Input/Bypass isolation transformer
- 12 Pulse rectifier & Active/Passive filter



Parallel System Application

Added-value Service and Customization

Harsh industrial environments

- Strong enclosure
- Shield box protection
Control boards can be dust-proof and anti-interference
- Replaceable
Prevent dust and debris from affecting ups performance
- IP31
Prevents liquids and debris from entering the UPS

Intelligent battery monitor system – MMBM-3

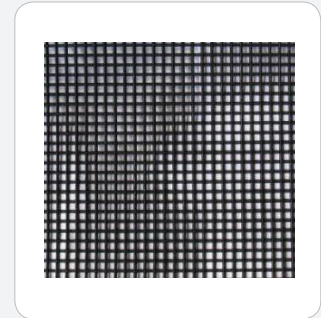
- Real time monitoring parameters
- Smart diagnosis status
- Real time abnormal alarm
- Record and save events logs

Flexible network management

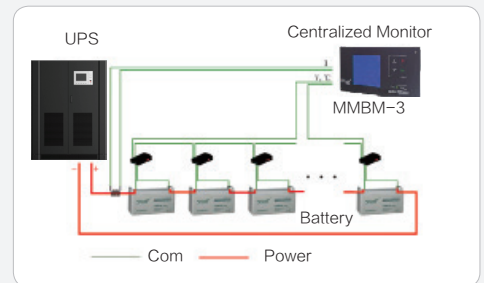
- 8+6 dry contact communication signals
- Optional SNMP adapter
- Emergent alarm via SMS/Email
- Modbus for remote management

Customized design

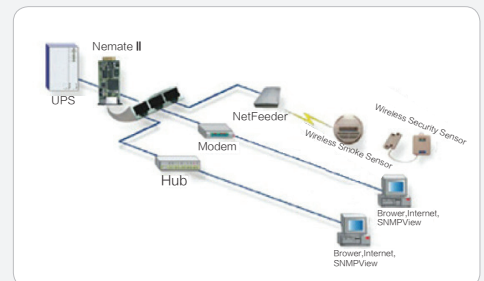
- External bypass cabinet
- Input/Bypass isolation transformer
- 12 Pulse rectifier & Active/Passive filter
- Energy reverse absorber for industrial applications (feedback protection)



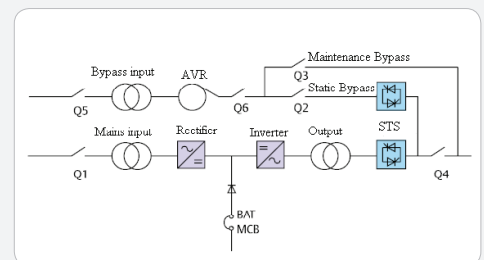
Filtering Screen



Intelligent Battery Management System



Flexible Network Management



Customized Design Structure

Technical Specifications

ModelName		FR-UK33200	FR-UK33250	FR-UK33300	FR-UK33400
I N P U T	Voltage (Vac)	380 ± 25%			
	Rectifier Frequency range (Hz)	40~65			
	SYNC Frequency Tracking range(Hz)	50/60 Hz ± 5%(10% Selectable)			
	Phase	3 φ 4W+GND			
	Battery voltage (VDC)	12V × 32=384			
	Charging Current (A)	10 A ~100A Selectable			
O U T P U T	Capacity (kVA)	200	250	300	400
	Phase	3 φ 4W			
	Voltage (Vac)	Utility mode, L - N: 230 ± 10%; Battery mode, L - N: 230 ± 2%			
	Frequency (Hz)	Utility mode, Utility frequency; Utility fault, Machine frequency 50/60HZ ± 0.2%			
	Phase difference	≤2 degree			
	Waveform distortion	Linear Load, THD ≤ 3%			
	Static-Maintenance Switch time(ms)	0			
	Efficiency	≥93%			
	Overload capacity	125% of rated load last for 10 minutes, 150% of rated load last for 1 minute			
O T H E R	LCD display	Input voltage of three phases; Input frequency; Output of three phases; Load; Battery voltage; Charge current etc. Multi languages to choose on the interface			
	LED display	Abnormal AC input, Fault inverter, Bypass, Low battery, Overload, Phase order			
	Alarm function	Include Overload, abnormal AC input, Low battery, UPS failure etc.			
	Communication function	Supporting dry communication and RS232/RS485. Realization of UPS Intelligent monitoring			
	Battery management	Switch uniform / floating charge automatically; Support battery self-testing; Alarm when battery is abnormal; Provide with battery temperature compensation.			
	Protection	Battery low voltage, Overload, Over-temperature, Output short circuit, Output over/low voltage etc.			
	Approvals	CE (EN 62040-2, IEC 62040-1)			
	Noise (dB)	< 75 (1 meter from the frontspiece of the machine)			
	Cooling	Fans			
	Operation temperature	0 ~ 40°C			
	Environment humidity	0 ~ 95%, No condensation			
	Dimension (W × D × H) (mm)	1400 × 1000 × 1850		1600 × 1000 × 1850	
Weight (kg)	2200	2300	2500	2600	

◆ Specifications are subject to change without prior notice.



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