



## FR-UK 33 Series

UPS 10~600kVA

- » PF=0.9
- » Small Footprint
- » High Efficiency 94%
- » All Series Touch Screen Design
- » Galvanic Isolation Transformer
- » Double Button Switch Prevent Misoperation



Computer Room



Data Center



Precision  
Instrument



Intelligent  
Device



Auto  
Manufacturing



Glass & Metallurgy  
Industry



PLC System



Petrochemical  
Industry



Automation  
Equipment



Power Plant

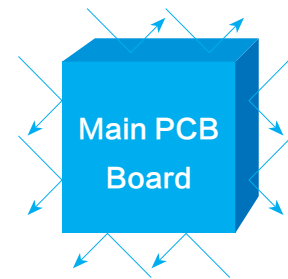
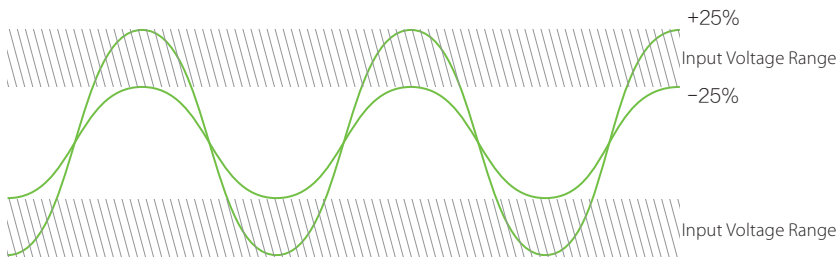
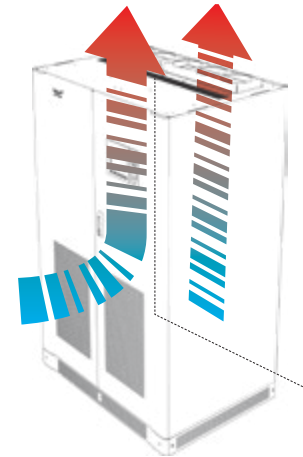


# FR-UK 33 Series UPS



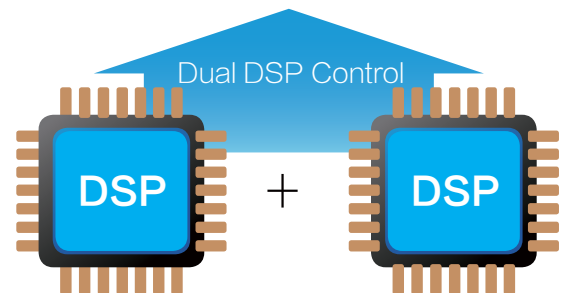
## Reliable Design

- The output isolation transformer provides high reliability to adapt different harsh industrial environments and protects the critical loads
- 100% 3-phase unbalance load adapt to different kinds of complex applications
- Dual airducts design offer good cooling to protect the key components and extend the service life
- Dual power supply redundancy
- Wide input voltage range provides high adaptability to the grid and extend the battery service life
- Main PCB board with professional electromagnetic shielding improve reliable performance of EMC



## Innovative Upgrade

- Dual DSP control technology, make the data processing faster and more precise, improve the reliability
- High output PF=0.9 meet with high requirements of applications
- ECO-mode (98% Efficiency) gives possibility of significant cost reduction and heat emission
- Bus synchronization control function provides reliable high power for the dual bus application
- Advanced no-master-slave parallel technology achieves online power expansion and prevent single fault



## Intelligent Management

- Multiple communication interface supports UPS and load intelligent monitoring
- Intelligent SNMP achieves local monitoring and remote monitor
- Battery temperature compensation function extends battery service life
- Battery self- test function and battery temperature compensation function improve the battery performance and extend battery uselife
- Intelligent fan control according the load capacity reduces the noise and prolongs fan service life



## Humanized Operation

- 10-30kVA models with wheels enable easy movement
- HMI - Friendly operation
- ON/OFF - Double Button design
- EPO
- 10,000 history records reduces fault analysis and maintenance time
- Power components in module design - more compact structure and easy for maintenance
- Hot-swappable fans design achieves on-line maintenance



## Technical Specifications

MODEL	FR-UK 3310	FR-UK 3320	FR-UK 3330	FR-UK 3340	FR-UK 3360	FR-UK 3380	FR-UK 33100	FR-UK 33120	FR-UK 33160	FR-UK 33200	FR-UK 33250	FR-UK 33300	FR-UK 33400	FR-UK 33500-12P	FR-UK 33600-12P
<b>Input</b>															
Voltage(Vac)	380/400/415±25%														
Rectifier Frequency(Hz)	40~70														
SYNC Frequency Tracking(Hz)	50/60±10%(±5% optional)														
Phase	3φ4W+PE														
<b>Output</b>															
Capacity (KVA)	10	20	30	40	60	80	100	120	160	200	250	300	400	500	600
Power Factor	0.9 (1.0 optional)														
Phase	3φ4W+PE														
Voltage (Vac)	L-N: 220/230/240±1%, L-L:380/400/415±1%,														
Frequency(Hz)	50/60±0.2 (battery mode)														
Waveform	Pure sine wave, THD≤2% (linear load)														
3 Phases 100% Load Unbalance Voltage Stability	≤2%, allow 100% unbalance														
Overload	125% load for 10mins, 150% load for 1 min														
<b>Battery</b>															
Voltage (Vdc)	348 (360 setting)									384 (348/360/372 setting)					
BATT Type	External														
Charging Current(A)	10~40A setting									10-100A setting					
<b>Other</b>															
Maintenance Bypass	Yes														
Communication Interface	RS485/MODBUS/dry contacts (SNMP is optional)									RS232/RS485/dry contacts (SNMP is optional)					
Display	Touch screen + LED														
Alarm	Overload, abnormal AC input, low battery, UPS failure														
Protection	Low battery, overload, over temperature, short circuit, output over voltage, output low voltage														
Noise (dB)	< 65									< 70					
Working Temperature	0 ~ 40℃														
Relative Humidity	0 ~ 95%, No condensation														
Dimension (WxDxH)(mm)	500×600×1180			500×800×1600			700×800×1800			1400x1000x1850		1600×1000×1850		3000×1000×1850	
Weight(kg)	230	250	300	400	450	520	600	650	825	1280	1568	1830	2050	4500	

\* Specification is subject to change without prior notice.

\* If the higher charging current is adjusted , the UPS capacity shall be derated.

### Xiamen Kehua Hengsheng Co., Ltd.

Add: No. 457, Malong Road, Torch High-Tech Industrial Zone, Xiamen Fujian China

Tel: +86-592-5160516 Fax: +86-592-5162166 www.kehua.com