

True on-line double conversion design

FR-UK33 Series

(10-600kVA)



Green & Reliability

- High reliability DSP control
- Intelligent fan speed control
- Full protection function
- ECO mode and EPO function
- Efficiency 98% at ECO-mode
- 10,000 events logs
- Battery self-test function
- 12 Pulse rectifier (optional)
- Bypass isolation transformer (optional)



Excellent Flexibility

- Allow 100% three phase unbalance load
- Intelligent RS232/RS485 & DB9 dry contact
- communication port
- DC cold start function (optional)
- Intelligent battery monitor system-MMBM (optional)
- MODBUS & SNMP adapter (optional)



Advanced Technology

- Online double conversion
- Wide input voltage range
- IGBT inverter and output isolation transformer
- Advanced battery charging management
- Advanced no-master-slave parallel technology (optional)



ISO 9001
ISO 14001
ISO 45001
Factory Certificate



TIS. 1291 Part 1-2553
TIS. 1291 Part 2-2553
TIS. 1291 Part 3-2553

Technical Specification

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	
INPUT																
Voltage (Vac)	380/400/415±25%															
Rectifier Frequency (Hz)	40~70															
SYNC Frequency Tracking (Hz)	50/60±10% (±5% settable)															
Phase	3 Phase 4 Wire (L1,2,3+N+G)															
OUTPUT																
Capacity (KVA)	10	20	30	40	60	80	100	120	160	200	250	300	400	500	600	
Power Factor	1.0															
Phase	3 Phase 4 Wire (L1,2,3+N+G)															
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															
BATTERY	Sealed, Maintenance-free lead acid batteries (LITHIUM-ION BATTERY are Optional)															
Voltage (Vdc)	348 (360 settable)							384 (348/360/372 settable)								
Battery Type	External															
Charging Current (A)	10~40A settable							10-100A settable								
GENERAL																
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, etc.															
Protection	Low battery, overload, over temperature, short circuit, output over voltage, output low voltage, etc.															
Noise (dB)	< 65							< 70								
Working Temperature(°C)	0~40															
Relative Humidity	0 ~ 95%, no condensation															
Dimension (W×D×H)(mm)	500×600×1180			500×800×1600			700×800×1800			1400×1000×1850			1600×1000×1850		3000×1000×1850	
Weight (kg)	230	260	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.