

iPower

Online Transformer-based UPS
10KVA ~ 160KVA PF 0.9

Highlights

- Online double conversion
- IGBT inverter and output isolation transformer
- Transformer design
- Wide input voltage range
- 3 phases UPS allow 100% unbalance load
- Fully DSP control, high reliability and performance
- DC cold start function
- Advanced battery charging management
- Intelligent fan speed control
- HMI-touch screen display
- ECO mode and EPO function.
- ECO-mode with 98% efficiency
- 10,000 events logs
- Battery self-test function
- Intelligent RS232/RS485, DB9 dry contact communication port
- 10-30kVA models with wheels
- MODBUS &SNMP adapter(optional)
- Advanced no-master-slave parallel technology (optional)
- Intelligent battery monitor system-MMBM(optional)
- 12 Pulse rectifier(optional)
- Bypass isolation transformer(optional)



TIS, 1291 (TYPE 1) 2553
TIS, 1291 (TYPE 2) 2553
TIS, 1291 (TYPE 3) 2555

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 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
- Intelligent fan control according to the load capacity reduces the noise and prolongs fan service life
- Battery self-test function and battery temperature compensation function improve the battery performance and extend battery life
- Battery temperature compensation function extends battery 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

iPower



Computer room



Data Center



Precision Instrument



Intelligent Device



Auto Manufacturing



Glass & Metallurgy Industry



PLC System



Petrochemical Industry



Automation Equipment



Power Plant



100-160KVA



40-80KVA



10-30KVA

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
CAPACITY	(VA)	10KVA	20KVA	30KVA	40KVA	60KVA	80KVA	100KVA	120KVA	160KVA
	(W)	9KW	18KW	27KW	36KW	54KW	72KW	90KW	108KW	144KW
INPUT										
Voltage Range		380 / 400 / 415Vac ± 25%								
Frequency Range		40Hz ~ 70Hz								
SYNC Frequency Tracking(Hz)		50/60 ± 10%(± 5% optional)								
Phase		3 Phase 4 Wires + PE								
OUTPUT										
Output Voltage		380V / 400V / 415Vac								
Power Factor		0.9								
Voltage Range		L-N: 220/230/240 ± 1%, L-L: 380/400/415 ± 1%								
Frequency		50/60 ± 0.5%(battery mode)								
Total Harmonic Distortion		≤ 3% THD (Linear Load)								
Transfer Time		0 ms								
Waveform		Pure Sinewave								
3 Phase 100% Load Unbalance Voltage Stability		≤ 2%, allow 100% unbalance								
Overload		105% load for 60 mins, 125% load for 10 mins, 150% load for 1min.								
BATTERY										
DC voltage		348Vdc (360Vdc optional)								
Battery type		External								
Charging Current		10 ~ 40A setting								
Battery Self-testing		Automatically alarm and estimate battery status in battery abnormal status								
OTHERS										
Maintenance Bypass		Yes								
Communication Interface		MODBUS RS485, dry contact (SNMP optional)								
Display		LCD Display indicates frequency, voltage, load, battery voltage, etc. LED indicates running status								
Alarm		Overload, abnormal AC input, low battery UPS failure								
Protection		Low battery, overload over temperature, short circuit, output over voltage, output low voltage								
Humidity		0~95% RH @ 0- 40°C (Non-condensing)								
Noise Level		≤ 65 dB								
Module Dimension, W x D x H (mm)		482 x 590 x 131								
Module Weight		28 kg / power module, 27 kg / charger module, 7 kg / monitoring module								
UPS Dimension, W x D x H (mm)		500 x 800 x 1180			800 x 800 x 1600			1000 x 800 x 1800		
UPS Net / Gross Weight (kgs)		230	250	300	400	450	520	600	650	825



TIS. 1291 (TYPE 1) 2553
TIS. 1291 (TYPE 2) 2553
TIS. 1291 (TYPE 3) 2555

- All specifications subject to change without notice.
- Custom-made specifications are acceptable.
- Manufactured by factory with ISO 9001, ISO 14001, OHSAS 18001, CE, UL STANDARD