



High Performance Design For Industrial

i-POWER

10KVA - 160KVA 3:3 phase

Online Transformer-based UPS

High output power factor 0.9



LOCAL AREA
NETWORKS
(LAN)



SERVERS



DATA
CENTRES



TELECOM-
MUNICIPATIONS
DEVICES



E-BUSINESS
(Servers Farms,
ISP/ASP/POP)



INDUSTRIAL
PROCESSES



INDUSTRIAL
PLCS



ELECTRO-
MEDICAL
DEVICES



EMERGENCY
DEVICES
(Lights/Alarms)



TIS.1291 Part 1-2553
TIS.1291 Part 2-2553
TIS.1291 Part 3-2555

Highlights

- Online double conversion
- IGBT inverter and output isolation transformer
- Transformer base design
- Wide input voltage range
- 3 phases UPS allow 100% unbalance load
- Dual 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 - 30 kVA 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)



I-Power series medium/high power UPS uses the industry's tried and tested phase-controlled rectification technology and power components and inverter module with excellent performance, as well as smart multi-mode battery management technology and a variety of power management software along with a reinforced combination cabinet structure to provide high quality and highly reliable uninterruptible sine wave power to loads and is cost effective and has a good user base.

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

Your choice of power protection



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INDUSTRIAL PROCESSES



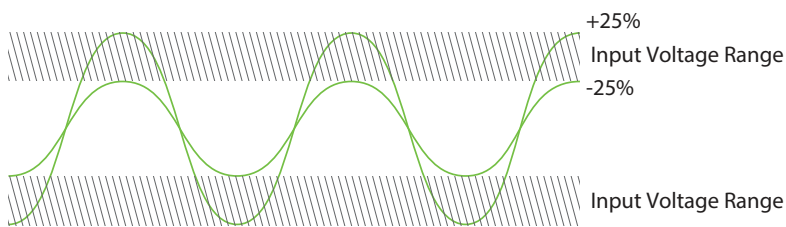
INDUSTRIAL PLCs



ELECTRO-MEDICAL DEVICES



EMERGENCY DEVICES (Lights/Alarms)

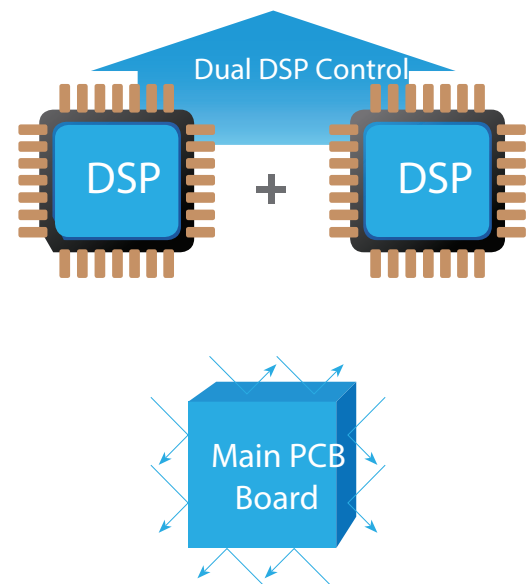


HUMANIZED OPERATION

- 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

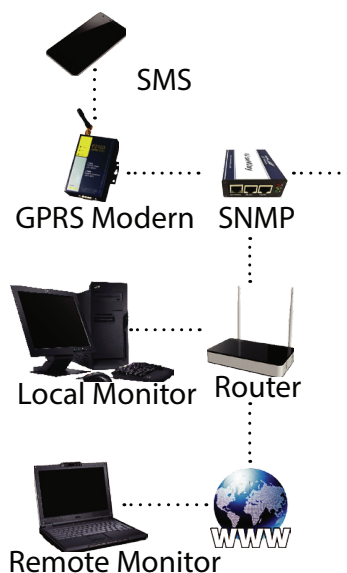
INNOVATIVE UPGRADE

- 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



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EMERGENCY DEVICES (Lights/Alarms)

APPLICATION



Computer room



Glass & Metallurgy Industry



PLC System



Data Center



Petrochemical Industry



Precision Instrument



Automation Equipment



Intelligent Device



Power Plant



Auto Manufacturing

MODEL

FR 100 - 160 kVA



MODEL

FR 40 - 80 kVA



MODEL

FR 10 - 30 kVA



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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		380Vac/400Vac/415Vac ±25%								
Frequency Range		40Hz ~ 70Hz								
SYNC Frequency Tracking(Hz)		50/60±10%(±5% optional)								
Phase		3 Phase 4 Wires + PE								
OUTPUT										
Output Voltage		380Vac/400Vac/415Vac								
Power Factor		0.9 (1.0 optional)								
Voltage Range		L-N: 220Vac/230Vac/240Vac ± 1%, L-L: 380Vac/400Vac/415Vac ± 1%								
Frequency		50/60±0.2 (battery mode)								
Total Harmonic Distortion		≤ 3% THD (Linear Load); ≤ 2% Allow 100% unbalance								
Transfer Time		0 ms								
Waveform		Pure sine wave								
3 Phases 100% Load Unbalance Voltage Stability		≤ 2%, allow 100% unbalance								
Overload		125% load for 10mins, 150% load for 1 min								
BATTERY										
DC voltage		348Vdc (360Vdc optional)								
Battery type		External								
Charging Current		10~40A setting								
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								
Relative Humidity		0 ~ 95% (with no condensation)								
Operating Temperature		0 ~ 40°C (Non-condensing)								
Ingress Protection		IP20								
Noise Level		< 65								
UPS Dimension, W x D x H (mm)		500×600×1180			500×800×1600			700×800×1800		
UPS Net / Gross Weight (kgs)		230	250	300	400	450	520	600	650	825



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