Falcon Series C 30-600Kva POWERTECH Industrial Corporations USA

Modular UPS (3-Phase) Series

The Efficient Redundant Power System for The Protection of Sensitive Equipment





Three-Phase Design



UPS Parallel Expansion



Generator Compatible





Energy-saving



Dual input



Power Management

POWERTECH Industrial Corporations Falcon Series A Modular Three-Phase UPS is an online double conversion three-phase UPS, delivering complete power protection with the best combination of reliability, functionality, availability and flexibility. Designed to meet the strict power requirements of a wide range of sensitive equipment, the scalable and parallel design allows easy capacity expansion up to 200KVA on a single frame and two frames in parallel to reach the maximum 400KVA with 20KVA power module, and up to 300KVA on a single frame and three frames in parallel to reach the maximum 900KVA with 30KVA power module as the needs of your data center grow with time.

Modular Three-Phase UPS combines the integrated IGBT technology together with DSP control arithmetic to increase reliability through reduced component while enhancing the operating efficiency. Along with high input power factor and less than 3% input Total Harmonic Distortion (THDi), Modular UPS demonstrates a strong load adaptability for all kinds of load while reducing total cost of ownership and carbon footprint.

Multifunction LCD Control Panel

Administrators can easily access information including power module or system status, event logging, battery management system and even component diagnostic system to easily identify the faulty component during module or system failure.

APPLICATIONS

- Corporate Data Center
- Networking, Servers & Workstations
- Industrial Equipment

SERIES FEATURES

- Online double conversion topology
- High input power factor (>0.99), low input THDi (<3%)
- Strong load adaptability for linear and non-linear load
- N+1 power module redundancy
- Scalable design
- Digital paralleling technology, low circle current sharing between modules (<2%)
- Hot-swappable power and bypass modules
- Integrated IGBT modules
- Dual or single AC input connections
- Battery cold start function
- Conformal coated PCBs
- Independent charger for batteries
- Smart battery management
- Digital control rectifier, inverter, charger and discharger
- Independent controller of each module
- Friendly generator interface
- Totally front access, top and bottom cable connection
- Inbuilt touch screen LCD
- Remote management capability
- Extreme system efficiency
- Low total cost of ownership and carbon footprint
- Low noise system design



Excellent Power Module Performance

DIGITAL CONTROL SYSTEM

Each power module is configured with two Digital Signal Processor (DSP) boards for digital control. DSP-based control and monitoring system provides intelligent management with great sensitivity to enhance efficiency and reliability while reducing component count.

ACTIVE CURRENT SHARING BETWEEN MODULES

Each power module is designed for parallel operation with active current sharing. The current difference between two modules is controlled within 2% event step on or step off 100% load hence massively increases the system reliability.

BATTERY COLD START UNIT

When there's no utility power available, the inbuilt battery cold start unit will switch the UPS onto battery power to turn on UPS from the battery.

OPTIONAL ACCESSORIES

- SNMP Communication Card
- Dust-proof Net
- Environmental Sensor
- Parallel Kit
- Battery Temperature Compensation Module





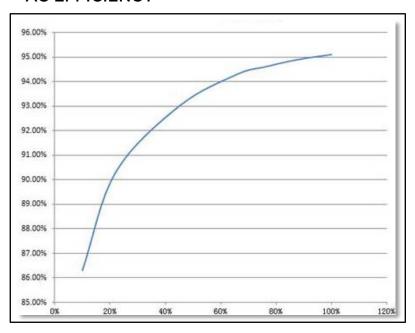








AC EFFICIENCY



TECHNICAL SPECIFICATIONS

Model Name	FSC 180 -30	FSC 300 -30	FSC 600 -30 K	FSCM30					
Model Brief	6-Module Cabinet	10-Module Cabinet	20-Module Cabinet	30kVA Power Module					
Configuration	<u>'</u>			<u>'</u>					
Capacity (KVA / KWatts)	180 / 162	300 / 270	600 / 540	30 / 27					
Main Input	!	•		'					
Input Voltage	380V,	/400V/415V(line to line), 2	220V/230V/240V(line to n	eutral)					
Input Frequency	50/60Hz								
Power Factor	>0.99								
Input Voltage Window	-40% ~ +25%								
Frequency Window	40-70HZ								
Battery									
Battery Voltage	±240VDC								
Charger Power	10%*Power (selectable from 0~20%)								
Charger Voltage Precision	1.5%								
Bypass	!								
Bypass Voltage	380V/4	100V/415V, (line to line), 2	220V/230V/240V, (line to	neutral)					
Bypass Voltage Window	-20% ~ +15%, full load								
	<110%, long time operation								
		·	for more than 5 minutes						
Bypass Overload Capability		•	or more than 1 minutes						
	150% <load<400%,last 1="" for="" more="" second<="" td="" than=""></load<400%,last>								
0.11		>400%, last for r	nore than 200ms						
Output	200	W / / 4 O O V / 4 4 E V / 1	2201/2201/2401/						
Output Voltage	380V/400V/415V, three phase220V/230V/240V, one phase								
Voltage Precision	+1.5% ~ -1.5% (linear load)								
Voltage THD (Total Harmonic Distortion)	THD<1%(linear load), THD<6%(non-linear load)								
Power Factor			.9						
Phase Tolerance	120°±0.5° (balance and unbalance load)								
Crest Factor		3	:1						
	<105%,long time operation								
0 1 10 135	105% <load<110%, 1hour<="" after="" bypass="" td="" to="" transfer=""></load<110%,>								
Overload Capability	110% <load<125%, 10="" after="" bypass="" minutes<="" td="" to="" transfer=""></load<125%,>								
	125% <load<150%, 1="" after="" bypass="" minute="" to="" transfer="">150%, transfer to bypass after 200ms</load<150%,>								
Custom		1 25070) (1 0115101 10	276400 41101 2001110						
System System Efficiency		Normal made: OF	0/ FCO mode, 000/						
System Efficiency	Normal mode: 95%, ECO mode: 98%								
Battery Mode Efficiency	95%								
Display	LCD+LED, Touch screen and keyboard								
IP Class	IP20								
Interface (Communication Ports)	RS232,RS485,SNMP card, EPO, Dry contacts, Generator interface								
Installation / Connection	Top or bottom cable connection								
Operation Temperature	0-40°C								
Storage Temperature	-40°C-70°C								
Relative Humidity	0-95% (non-condensing)								
Noise (dB)		<6	5dB						
Physical	1		l						
Weight (kg)	170	220	660	34					
Dimension (H x W x D) (mm) #All specifications are subject to change without notice	1600 x 600 x 1100	2000 x 600 x 1100	2000 x 2000 x 1100	134 x 460 x 790					

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BATTERY RUNTIME

Watts on Load	27KW	54KW	81KW	108KW	135KW	162KW	189KW	216KW	243KW	270KW
FSC300-30 + CB65 * 1	30 Min .	16 Min.	7 Min.	<5 Min.						
FSC300-30 + CB65 * 2	100 Min.	30 Min	20 Min.	16 Min.	11 Min.	8 Min.	5 Min.	<5 Min.		
FSC300-30 + CB65 * 3	165 Min.	58 Min.	30 Min.	23 Min.	19 Min.	16 Min.	12 Min.	9 Min.	7 Min.	6 Min
FSC300-30 + CB65 * 4	205 Min.	100 Min.	50 Min.	30 Min.	25 Min.	21 Min.	18 Min.	15 Min.	13 Min.	9 Min.