PowerChampion Series
Low Frequency Online UPS
10-800KVA (3 Ph in/3 Ph out)

Efficient • Energy-saving • Environmental-protection • Innovation :

PowerChampion series UPS for China's top product, nominal capacity from 10KVA to 800KVA, had application in key equipment for the power system protection, could provide high quality power, with high level of availability and scalability, and invest iminimize Total Cost of Ownership (TCO) .

Application:

Application Mainly used in large IDC rooms, bank/securities settlement center, communication network management center, semi-conductor product lines and large automation production with it's control system. According to the special needs of users was improved, used in large sports venues, conference room, theater, highway and railway tunnels metal halide lamp lighting system.

Features:

- Use advanced 6th generation DSP and full digital control technologies to realize higher system stability.
- Output power factor is 0.9, carrying capacity than conventional UPS with 10% above, as users reduce investment cost.
- Advanced distributed active parallel technology can realize parallel operation of 6PCS UPS units without the need of centralized bypass cabinet.
- 6-inch extra large LCD that can display 12 language (Chinese, English, Russian, Spanish, French and so on).
- Extra wide input voltage and frequency range make it adapt to severe power grid environment.
- Intelligent battery management maintains battery automatically to prolong the battery life.
- Standard input/output filter improves the system EMC performance.
- Extra strong capability to withstand output overload and short circuit, ensuring the system stability and system safety under extreme conditions.
- Layered independently-sealed ventilation channel and re-dundant fan, circuit boards with protective paints and a dust filter embedded make it highly efficient to dissipate heat and protect the product effectively under severe environment.

Technical data

Technical Specifications							
PowerChamion 10-100KVA							
Model	**PW10**	**PW20**	**PW30**	**PW40**	**PW60**	**PW80**	**PW100**
Rated Input Voltage	380/400/415VAC 3-phase 4-wire						
Rated Frequency	50/60HZ						
Input Parameters							
Input Voltage Range	±25%						
Input Frequency Range	45Hz～65Hz						
Input Soft Start Function	0-100% 5-300S settable						
Input Power Factor	＞0.8						
Input harmonic current(THDi)	＜20%						
Bypass							
Bypass Voltage Range	-20%~+15%						
Bypass Frequency Range	50/60HZ±10%						
Output Parameters							
Inverter Output Voltage	380/400/415VAC 3-phase 4-wire						
Voltage Stability	±1%(Steady status),±3%(Transient status)						
Frequency	50/60Hz						
Mains power synchronization window	±5%						
Actually measured frequency accuracy (internal clock)	50/60Hz±0.05Hz						
Output Power Factor	0.9（Output 90kW per 100kVA）						
Transient Response Time	‹5ms						
Inverter Overload Capability	At 0.9 power factor, 110% for 1 hour, 125% for 10 minutes and 150% for 60s						
Short circuit current from inverter	3ph 1.5In for 5seconds，1ph 2.9In for 5seconds						
DC Voltage	360/384/408VDC						
Maximum Bypass Capability	1000% for 100ms						
Phase Shift Characteristic	With 100% balanced load	‹1°					
	With 100% imbalance load	‹1°					
Total Harmonic Distortion(THDv)	100% linear load	‹1%					
	100% non-linear load	‹3%					
System Efficiency (full load)	Up to 94% (inverter efficiency is up to 98%)						
Rectifier Output Parameters							
Charger output voltage stability	1%						
DC Ripple Voltage	≤1%						
Operating Environment							
Operating Temperature Range	0～40℃						
Storage Temperature	-25～70℃（inverter efficiency is up to 98%）						
Relative Humidity	0～95% (Non-condensing)						
Maximum Operating Height	≤Elevation 1000m, for elevation above 1000m, derate by 1% for every increase of 100m						
Noise (1m)	58-68dB						
Protection level	IP20						
Standard	Safety: IEC60950-1 IEC62040-1-1 UL1778 EMC IEC62040-2 CLASS C2 EN50091-2 CLASS A Design and Test IEC62040-3						
Physical Parameters							
Weight(kg)	205	237	323	364	472	556	800
Dimension (W x D x H)mm	560×730×1250				800×850×1600		900×855×1900

STANDARD: Conform to GB/IEC regulation : EMC:GB7260.2/IEC62040 GB/17626.2~5/IEC61000-4-2~5 SAFETY:GB4943
Note:Product specifications are subject to change without further notice.

Technical Specifications

PowerChamion 120-800KVA								
Model	**PW120/PW120 (12P)**	**PW160/PW160 (12P)**	**PW200/ PW200(12P)**	**PW300/ PW300(12P)**	**PW400/ PW400 (12P)**	**PW500/ PW500(12P)**	**PW600/ PW600(12P)**	**PW800/ PW800 (12P)**
Rated Input Voltage	380/400/415VAC 3-phase 4-wire							
Rated Frequency	50/60HZ							
Input Parameters								
Input Voltage Range	±25%							
Input Frequency Range	45Hz～65Hz							
Input Soft Start Function	0-100% 5-300S settable							
Input Power Factor	＞0.8							
Input harmonic current(THDi)	＜20%							
Bypass								
Bypass Voltage Range	-20%~+15%							
Bypass Frequency Range	50/60HZ±10%							
Output Parameters								
Inverter Output Voltage	380/400/415VAC 3-phase 4-wire							
Voltage Stability	±1%(Steady status),±3%(Transient status)							
Frequency	50/60Hz							
Mains power synchronization window	±5%							
Actually measured frequency accuracy (internal clock)	50/60Hz±0.05Hz							
Output Power Factor	0.9（Output 90kW per 100kVA）							
Transient Response Time	＜5ms							
Inverter Overload Capability	At 0.9 power factor, 110% for 1 hour, 125% for 10 minutes and 150% for 60s							
Short circuit current from inverter	3ph 1.5In for 5seconds，1ph 2.9In for 5seconds							
DC Voltage	360/384/408VDC							
Maximum Bypass Capability	1000% for 100ms							
Phase Shift Characteristic	With 100% balanced load	＜1°						
	With 100% imbalance load	＜1°						
Total Harmonic Distortion(THDv)	100% linear load	＜1%						
	100% non-linear load	＜3%						
System Efficiency (full load)	Up to 94% (inverter efficiency is up to 98%)							
Rectifier Output Parameters								
Charger output voltage stability	1%							
DC Ripple Voltage	≤1%							
Operating Environment								
Operating Temperature Range	0～40℃							
Storage Temperature	（inverter efficiency is up to 98%)-25～70℃							
Relative Humidity	0～95% (Non-condensing)							
Maximum Operating Height	≤Elevation 1000m, for elevation above 1000m, derate by 1% for every increase of 100m							
Noise (1m)	58-68dB							
Protection level	IP20							
Standard	Safety: IEC60950-1 IEC62040-1-1 UL1778 EMC IEC62040-2 CLASS C2 EN50091-2 CLASS A Design and Test IEC62040-3							
Physical Parameters								
Weight(kg)	980	1420	1200	1750	1350	2000	1600	2200	2100	2750	3690	6390	7390
Dimension (W x D x H)mm	900X855 X1900	1250X855X1900		1640X855 X1900	1250X855 X1900	1640X855X1900		2280X855X1900			2835X1000 X1950	3955X1090X1950	

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