



PRODUCTS CATALOGUE

UPS | EPS | AVR | APF | STS | Battery | DC Power | Project Design

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2019年3月

LEADING SERVICE PROVIDER OF POWER QUALITY



AEROSPACE BAYKEE (GUANGDONG) TECHNOLOGY CO.,LTD

Aerospace Baykee (Guangdong) Technology Co., Ltd.(Previous name Foshan Baykee New Energy Technology Incorporated Company)(hereinafter abbreviated as "Aerospace Baykee") who is a subordinate subsidiary of Beijing Aerospace Changfeng Co., Ltd. (stock code 600855). Beijing Aerospace Changfeng Co., Ltd. abbreviated as "ASCF" is a high-tech corporation.

The business scope of ASCF is including medical device, medical informatization, integrated digital operating room solution, laminar flow operating room project, safety city project, smart city project, security control of large-scale event, emergency and counter-terrorism. The border defense, policing informatization, information safety, safety in production and other business areas.

Aerospace Baykee is established in 2007, a professional manufacturer and exporter with R&D in improving power quality products like Uninterrupted Power Supply(UPS), EPS, inverters, AVR, and new energy products etc. Headquarter in Foshan, the earliest cooperation in China power industry passed and approved by the ISO9001 & ISO14001, OHSMS 18001, CE, 3C, TLC and CQC quality standard. It has become one of the most famous power source manufacture in China.

Our products range: Online UPS (1KVA-800KVA), modular UPS (10KVA~2.4MVA), Solar inverters & Solar PV energy solutions (1-400KW), EPS(Emergency power supply) (500W-800KW), Lead-acid maintenance-free battery (7Ah-2000Ah, 12V & 2V series), AVR (1KVA-1000KVA), APF(active power filter) ,Data center solutions.

Aerospace Baykee has undertaken and accomplished the service in Nanjing Youth Olympic Games, Wuhan-Guangzhou high railway, Beijing-Shanghai high railway, Guangzhou Asian Games, ShangHai World Expo, GuangZhou TV tower, GuangZhou Baiyun Airport, YangJiang nuclear power station, C919 large aircraft project, Alibaba Shanghai IDC data center, Hong Kong-Zhuhai-Macao Bridge, China military weapons, as well as a series of hospital, bank communication areas and so on public projects in domestic China.

Due to our high quality products and outstanding customer services, we have gained a global sales network, have office&branch in Pakistan, Dubai, Australia, partners in Kenya, Ghana, Mexico,Philippines, Vietnam.....

Aerospace Baykee based on aeronautics technology and quality, Committed to improve power quality and conditions to meet our customer's need and satisfaction.

WISELY LEADING THE GLOBAL INDUSTRY SOURCE



CHP3000 Series

(ONLINE UPS 10kVA-600kVA, Three Phase / Three Phase)



CHP3000 Series Brief

Aerospace Baykee (Guangdong) Technology is excited to extend our 3-phase solutions with the perfect CHP3000 Series of transformer based double conversion on-line UPS. This series UPS adopts high-speed microprocessor (MCU), Programmable logic device (CPLD) program which are controlled by software, the sixth generation low-exhaust and big-power IGBT and static switch as power components. This series product combines the world's newest control spare parts and the most advanced software. It entirely breaks through the technical bottleneck in traditional simulation age. It adopts the digital control technology and high-precision SMD technology. This UPS can suit for various power grid environments. All features can offer users the big capacity, flexibility, high reliability, stability etc. at a value expected from

Baykee name.

CHP3000 is widely used in telecom, bank, security, transporting, utility, manufacture, industry, commerce, government, medical equipment etc.

Highlights

- True On line-Double Conversion Technology.
- 7 inches Big Screen Display.
- Stable Rectifier and Harmonic Filters.
- IGBT PWM Inverter Technology.
- High Efficiency up to 92%.
- Wide Input Voltage Range.
- Advanced Battery Management.
- Short Circuit and Overload Protection.
- 256 Real Time Event Log with Detailed Parameters.
- Static & Manual Bypass Operation.
- Advanced Communication Capabilities.
- Perfect Generator Compatibility.
- Cold Start Function.
- Auto Restart Function.
- Can Set ECO Work Mode.
- Optional EPO Function.

Main Features

- **Digital control technique**
- **Advanced digital circuit system, provide over stable machine run:**
Through digital circuit system's high speed microcontroller and programmable logic devices, this circuit system of CHP3000 series UPS makes circuit control, parameters setting and running management more perfect. Digital circuit system can provide self-inspection and fault analysis function, and achieve pure sine wave voltage under various loading conditions.
- **Advanced & Intelligent battery management:**
CHP3000 series UPS guarantees to enhance battery life and maximize battery performance, life span and reliability through intelligent precision charging. Advanced battery management provides real-time information about battery voltage, charging current, battery quantity and battery capacity. This information can be seen on LCD panel. Besides, CHP3000 series can provide

temperature compensated battery charging, battery discharging management.

- **Intelligent inspection system:**

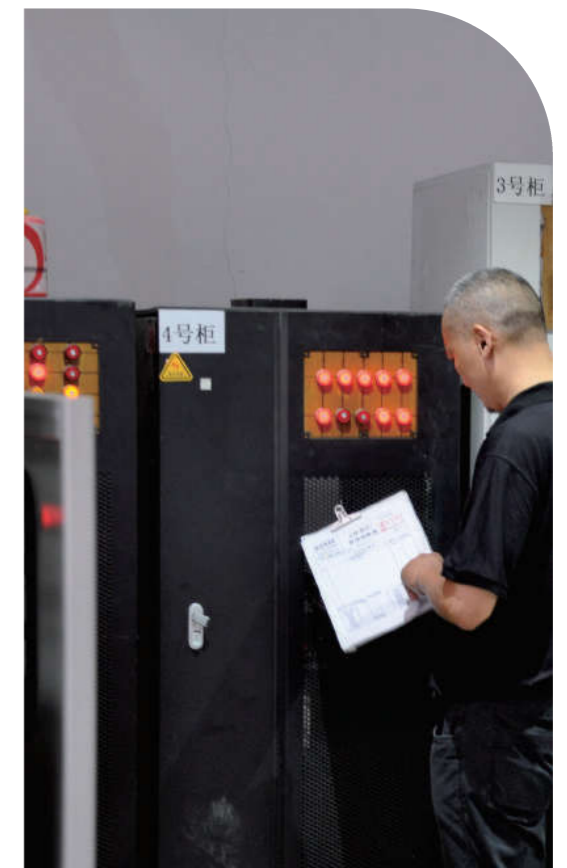
CHP3000 series UPS can online inspect power status, breaker status, fuse status and all circuit work status. Once machine has fault, inspection system will alarm and notify the administrator.

- **Parallel redundancy:**

Optional N+1 redundancy parallel. In redundant operation number of devices (N) would supply the load and one more unit (N+1) would remain ad standby. When one of the UPS' goes out of order because of failure or maintenance works, the other standby UPS continues feeding the critical loads without any interruption.

- **High Precision SMD technique**

Improve the circuit reliability and running precision.



Chip modules can work without jamming, anti-jamming ability greatly improved thereby.

Stand higher temperature, work more precisely, better filtering and more durable, life span extended by 80%.

■ The 6th Generation IGBT Inverter

DSP controlled IGBT Inverter provides the highest quality output power, the inverter efficiency is higher, ensures the cleanest output voltage waveform to protect connected loads.

■ Static & Manual (Maintenance) Bypass

Static bypass provides safe failure to mains if the ups is overloaded or develops a fault condition.

Manual bypass is used to power down the UPS without interrupting the power to the load. With this feature technical personnel can work on the faulty UPS and it is completely safe to change the inner units.

■ Auto Restart

When the main and bypass sources fail, the ups draws power from the battery system to supply the load until the batteries are depleted.

When UPS will reach its end of discharge, it will shut down. UPS will automatically restart and enable output power.

■ Advanced User Interface

Audio alert function.

User-friendly touch screen display, which can provide operating information in two different languages: English and Chinese. Thanks to this advanced LCD display all parameters of working device can be monitored and controlled. UPS is capable of recording up to 256 events.

Visual LED indicator: work flow and work status can be seen on LED indicator.

■ Advanced communication Capabilities

CHP3000 series has a wide range of advanced communication options. Standard RS232 & RS485, optional dry contacts or SNMP card for remote control.

■ Excellent load characters

Completely fulfill saltus from 0-100% without switching to bypass, and safeguard stable output.

■ Thorough protections

Input-output over-low voltage protection, input surge protection, phase protection.

Battery overcharge-over discharge protection, output overload shortcut protection.

Overheat protection and alerting.

■ High-performance dynamic characters

Implement high dynamic regulation and minish output voltage distortion.

■ 3 phases separately adjustment, balance stabilizing

Can achieve 100% unbalanced loads output.

■ Perfect Generator Compatibility

CHP3000 series UPS are perfectly compatible with diverse sources, especially with generators.

With high input power factor performance it is enough to choose generator with power only 20% higher rated then the UPS.

■ Optional EPO (Emergency Power Off)

EPO function is designed to switch off the UPS in emergency conditions. This system will turn off the rectifier, inverter and will stop powering the load immediately (including the inverter and bypass) also the battery stops charging or discharging.

If the input utility is still present, the UPS's control units will remain active, however, the output will be turned off. To remove all power from the UPS the external feeder breaker should be opened.

■ Optional input harmonic filter or 12 pulse wave rectifier

UPS with 12 pulse rectifier and input harmonic filter can make the THD <5%, and make the input power factor >0.96.

■ Optional battery detecting modules

Can inspect single cell battery's parameters, and display in panel. If the battery has fault, will alarm immediately and notify the administrator.

■ Personalized settings

Users can set UPS work status, can choose UPS, ECO, or Inverter work mode.

CHP3000 Series Specification

MODEL	CHP3010K-CHP3600K																			
Capacity(kVA)	10	15	20	25	30	40	50	60	80	100	120	160	200	250	300	400	500	600		
Power Watt(kW)	8	12	16	20	24	32	40	48	64	80	96	128	160	200	240	320	400	480		
Working Principle	Low Frequency Transformer Based True On Line-Double Conversion																			
RECTIFIER (INPUT)	Phase	Three Phase																		
	Input Power Factor	Standard ≥ 0.9 [6pulse Rectifier+Filter], Optional ≥ 0.96 [12pulse Rectifier+Filter]																		
	Input Voltage Range	220/380VAC (230V/400VAC or 240V/415VAC) $\pm 25\%$ 3P+N+PE ; 110V/208VAC (120V/220VAC or 277V/480VAC) optional																		
	Input Frequency Range	50Hz $\pm 10\%$ / 60Hz $\pm 10\%$ (Selectable)																		
	Total Harmonic Distortion (THDi)	6pulse Rectifier < 30%, Optional 12pulse Rectifier & Filter < 5%																		
CHARGING	Output Ripple	< 2%																		
	Soft Start	0-100% 5sec																		
	Charging Mode	Constant current, then constant voltage, charge with temperature compensation, automatic switch Between Equalized charging and Float charging.																		
	Float Charging Voltage	432VDC																		
	Equalized Charging Voltage	464VDC																		
BATTERY	Temp. Compensated Voltage	-3mV/ °C/cell																		
	Charging Current	0.1C (Automatic adjust according to battery capacity)																		
	Type	VRLA/AGM/Gel, optional Lithium Battery																		
	Battery Capacity	7~999AH settable (Configure Battery Capacity according to Back-up Time)																		
	Quantity	32units 12V or 192units 2V batteries (Nominal Voltage 384VDC)																		
INVERTER (OUTPUT)	Temperature	20°C~25°C (For Maximum Efficiency)																		
	Phase	Three Phase																		
	Rated Voltage	Rated Capacity*0.9																		
	Nominal Voltage	220/380VAC (230V/400VAC or 240V/415VAC), 3P+N 110V/208VAC (120V/220VAC or 277V/480VAC) optional																		
	Output Voltage Regulated Accuracy	$\pm 1\%$ (Stable load), $\pm 3\%$ (fluctuant load)																		
BYPASS	Output Frequency Range	50Hz 60Hz $\pm 0.5\%$ (Asynchronous)																		
	Crest Factor	> 3:1																		
	Output Total Harmonic Distortion (THD)	Pure Sine Wave, Linear Load < 3%, Non-Linear Load < 5%																		
	Dynamic Characteristics	Instant voltage $\pm 5\%$ (from 0 to 100%), Instant recover time < 10ms																		
	Unbalanced Load Voltage	< $\pm 5\%$																		
PROTECTION FUNCTION	Overload Capacity	At 115% load, normal work, At 125% load 10 min, At 150% load 1min, At 200% load 1S																		
	Inverter Efficiency	> 92% (full load)				> 93% (full load)				> 95% (full load)										
	Phase	3 Phase +N																		
	Input Nominal Voltage	220/380VAC (230V/400VAC or 240V/415VAC)								110V/208VAC (120V/220VAC or 277V/480VAC) optional										
	Output Nominal Voltage	220/380VAC (230V/400VAC or 240V/415VAC)								110V/208VAC (120V/220VAC or 277V/480VAC) optional										
GENERAL SYSTEM PARAMETERS	Transfer Time	0ms (adopt static switch)																		
	Input Protection	Input voltage, frequency over limited protection, Phase fault, Phase lack																		
	Output Protection	Over current, short circuit, over voltage, low voltage																		
	Battery Protection	Over charge, over-discharge protection																		
	Temperature Protection	Environment over temperature protection, inverter over temperature protection																		
GENERAL SYSTEM PARAMETERS	Hardware Fault Protection	Assistant power abnormal, breaker cut off, breaker overload, power devices over current/over voltage etc protection																		
	Working Environment	Temp: -10 ~ 40°C, relative humidity: 30% ~ 90%, Altitude < 2000m (1% decrease against 100 meters'rise, max. altitude 4000m)																		
	Cooling Method	COMPULSIVE VENTILATION																		
	Communication Interface	RS232/ RS485, optional dry contact, SNMP card (for remote control via Internet)																		
	Parallel Operation	Tandem hot backup or parallel connection																		
GENERAL SYSTEM PARAMETERS	Auto-surge Capacity	10/700 S, 5KV; 8/20 S, 20KA																		
	Protection Level	IP31								IP30										
	Safety Performance	Vin-n Vout-n 3000Vac, creepage < 3.5mA, insulating resistance > 2M Ω (500VDC)																		
	Noise (dB)	48-55				55-60				60-65				65-70						
	Dimension (W*D*H) mm	600*620*1250				700*600*1520				980*800*1800				1380*950*1800				2000*900*2000		2000*1200*2000
Weight (Kg)	205	254	265	304	311	407	485	506	770	913	937	1440	1710	1980	2810	3060	3860	4120		

※ 200V-208V-220V (Ph-Ph) Version is available

Baykee reserves the right to change or modify product design, construction, specifications or materials without prior notice and without incurring any obligation to make such changes and modifications on Baykee products previously or subsequently sold.