

Low Frequency Online UPS 6KVA–400KVA Uranus Series 3:3 Phase

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**Function Features**

**DSP digital control technology**

Core system uses the world's most advanced all-digital DSP control technology, can effectively guarantee the UPS core system accurate, and fast tuning.

**Advanced IGBT inverter technology**

Combined High-reliable and high efficiency IGBT inverter technology with high-frequency pulse width modulation technology (PWM).

It could reduce system noise and power loss, and ensure that users can load in a variety of job status to obtain high-quality voltage output and maximum cost-effectiveness, but also make input efficiency more than 95%.

**Pure-line double conversion technology**

Reliable and stable, after filtering and regulation of the output sine wave of pure-line double conversion technology, not only has the atmospheric disturbance suppression filter, but also with the standard output isolation transformers, static bypass, maintenance bypass, make this Products with higher ability to engage in short-circuit current. And it can be applied to the worst working environment.

**Perfectly protection**

Perfectly system protection functions: It with AC over-voltage, under-voltage, output overvoltage, under-voltage, output overload, short circuit protection, inverter, rectifier over-temperature protection, voltage under-voltage warning, battery over charging protection and other protection all in one to ensure the stability of system operation and reliability.

**System Structure**

Durable and reliable design of industrial-type modular structure, combined with full digital DSP control technology core system, make this product not only can be used for N + 1 / N + X redundancy and the ability to enlarge the capacity, but also permit different power and different times of the UPS could be in parallel. It greatly reduced the user's pre- and post-purchasing costs, and increasing capacity costs, but also expanded upper Spaces of increasing capacity.

**Powerful communication system**

The standard equipped with RS232 interface, do contact relays, emergency switching device EPO input interface.



**Low-power dissipation but high-efficiency**

To achieve more than 98% of ultra-high efficiency under ECO economic model, which can effectively bring down the system itself of the amount of electricity, and effective in accordance with the requirements of energy-saving target of the country.

**Prediction warning system**

LCD panel automatic detection function and timely warning in advance, with the boot self-diagnosis function. It could avoid the hidden danger in time due to UPS failure which caused the risk and personal safety. Also it could be automatic alarm by setting the battery discharge to standby time is less than a set value.

**Humanized panel display**

Humanized panel settings, the user can set system parameters, date, output voltage, battery capacity, alarm function, light-load shutdown, system boot time to turn on, MODEM settings, such as orders, also it can keep up to 120 abnormal failure information for users to query.

**Super-strong environment adaptability**

This product with superior environmental adaptability, wide AC input range, greatly reduces the frequency of use of the battery, and effectively extending the battery life.

**Powerful Overload Ability**

Using the pure-line double conversion technology, with the output isolation transformers, static bypass, and maintenance bypass.

Inverter Overload Ability reached 110% / 125% / 150% overload can be maintained for 300min/10min/1min.

Bypass Overload Ability reached 150% / 170% / 250% overload can be maintained for 60min/10min/1min.



**Panel Introduction**

- 1 (1) Language selection
- 2 (2) Input and output measurement
- 3 (3) Setting
- 4 (4) Case Record
- 5 (5) Alarm reset
- 6 (6) Time / date
- 7 (7) Page down
- 8 (8) Page up
- 9 (9) LCD panel
- 10 (10) Main Power input
- 11 (BATT) Battery-powered / under-voltage alarm
- 12 (BY) Bypass output
- 13 (OUT) Inverter output

**Advanced communication features**

1. Operating parameters display  
Voltage, current, frequency, battery temperature, load percentage, the current load back-up battery time remaining.
2. Alarm information  
Up to more than 120 commonly used information and internal fault alarm in actual-time records. When the machine fails, UPS system will automatically record fault code and the time, and the code content can be referenced for the user's manual.
3. Command  
Battery test, system shutdown, parameter settings, and could shutdown the UPS emergently on the LCD or on remote control panel.
4. Operation parameter setting  
To set the current date, the output voltage, battery capacity, alarm function, light-load shutdown, the system timer switch machine, MODEM settings and so on.

**5. Battery management functions**

- Display input / output, bypass voltage, frequency, load percentage, battery backup time and so on.
- To start battery test, we can obtain the battery voltage, current, discharge time and other data.
- To set forecast alarm function, also it could be automatic alarm by setting the battery discharge to standby time is less than a set value.

**6. Supported software interface**

-Windows9x, 2000, NT, Me, XP, Linux, Novell, Macosx, NT4.0, etc.



- ① Digital Control
- ② Inside View
- ③ Side Elevation
- ④ Transformer

**Applied Scope**

Data Center	Industrial Equipment
Financial And Securities	Large Internet Computer Room
Postal And Telecommunications	Energy And Electricity
Industrial And Commercial tax affair	Medical And Health

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Technical Specification																
HT6K - HT400K(Three-ins and Three outs)																
Model	HT6K	HT10K	HT15K	HT20K	HT30K	HT40K	HT50K	HT60K	HT80K	HT100K	HT120K	HT160K	HT200K	HT250K	HT400K	
Capacity(kVA)	6K/4.8K	10K/8K	15K/12K	20K/16K	30K/24K	40K/32K	50K/40K	60K/48K	80K/64K	100K/80K	120K/96K	160K/128K	200K/160K	250K/200K	400K/320K	
Battery Voltage	384V						432V						480V			
UPS efficiency	≥95%															
Noise	48 - 54dB(Distance 1m)			53 - 60dB(Distance 1m)			53 - 62dB(Distance 1m)			54 - 65dB(Distance 1m)						
Size (D x W x Hmm)	550 x 720 x 1200					800 x 740 x 1400			1070 x 740 x 1400		1420 x 740 x 1805		1630 x 1000 x 1900			
Weight(kg) (Including battery)	180	200	235	260	315	335	470	480	560	730	870	1160	1210	2150	2850	
Input	Voltage	3 phases 4 wires and ground, 380V ± 25%														
	Frequency	50Hz/60Hz ± 5% (Automatically)														
	Power factor	≥0.95														
Inverter output	Voltage	3 phases 4 wires, 380V ± 1%														
	Frequency	50Hz/60Hz ± 0.05% (By Battery)														
	Power factor	0.8														
	Harmonic distortion	Linear Load < 3%, Non-linear Load < 5%														
	Imbalance voltage	Balance load < 1%, Imbalance load < 3%														
	Phase shift angle	Balance load < ± 1°, Imbalance load < ± 2°														
	Transient response	Output at 0-50%-100% < 5%, response < 10ms														
	Overload capacity	110% ≥ 300 Min, 125% ≥ 10 Min, 150% ≥ 1 Min														
	Crest factor	3:1														
System	Wave form	Pure sine wave														
	Transfer time	0ms														
	Max. charging current	0.2A × C10														
	Charging time(Standard)	12hours														
	Protective function	Input over-voltage, under-voltage; output overload, shortcircuit; inverter over-temperature; Battery under-voltage, over-voltage														
	Running temperature & Humidity	0-40 degree Celsius, Less than 95% (without condensing)														
	Altitude	< 1000m (with increase of 100m, it will reduce output of 1%) max 4000m														
	Communication interface	RS232														
	Remote signaling	Dry contact ( battery low, battery discharging, bypass/fault ); EPO														
	Remote control	EPO and bypass														
	Degree of Protection	IP20 ( front door opened )														
	Parallel mode	N+1, N+X, can be in parallel with different power capacity														
	Software interface	Windows9x, 2000, NT, Me, XP, Linux, Novell, Macosx, NT4.0														
	Mean time between failures	300,000 Hours														
	Optional	Dustproof & dampproof, Isolating inverter transformer, lightning surge absorption, static switches, manual maintenance switch														

Remarks: Products Specifications are subject to change without notice.

◆ All specifications subject to change without notice. ◆ Custom-made specifications are acceptable.



**Uninterruptible  
Power  
Supply**

**Low Frequency Online UPS**

**6000 Series**  
1kVA-20kVA 1:1Phase  
6kVA-30kVA 3:1Phase

