Prostar

Prostar Low Frequency Online UPS

Uranus Series（6KVA-500KVA) 3:3

LONG BACKUP | AVR | TEL/MODEM PORT | SOFTWARES | SURGE PROTECTION | DIGITAL DISPLAY | LIGHTNINGPROOF

System overview

6kVA-500kVA 3:3 Phase

Uranus Series UPS is adopting the technology combined with the world's most advanced DSP digital control technology currently, and IGBT high frequency Pulse Width Modulation technique (PWM). Double-conversion online topology design makes the output frequency of UPS, which used for tracking, phase-locking, voltage regulator and filter out noise, interference from the power grid fluctuations in pure sine wave power supply, and make the UPS more comprehensive and perfectly protection for the users. After Prostar R&D center elaborative designed for more than 10 yeas, Prostar has designed a modular structure, whose overall operation is 5 times more reliable and stable performance than regular UPS, MTBF is over 300,000 hours.

Uranus Series UPS equipped with standard built-output isolation transformers, static bypass switch and manual maintain switch, making this series UPS has a very high capacity to engage in short-circuit. It could be used for the worst environment. Also it has perfect protect function.Moreover, it has the AC input, over-voltage, under-voltage, output over-voltage, short circuit protection, inverter, rectifier over-temperature protection, voltage under -voltage warning, battery over charging protection and other protections in one, to ensure system operation stably and reliably.

Uranus Series UPS includes 3-phase ins and 3-phase outs from GT6K-GT500K, which can be in parallel with 8 units UPS directly, conveniently and fast. flexible parallel technology could be applied to different loads and systems. According to the needs of customers' constitute, it could make N+1 or N+X construction, but also according to the different needs of customers with different capacity, it could be in parallel with random 8 units UPS, and all the load will be loaded by all 8 units UPS averagely of the parallel redundant UPS system. Any UPS of the parallel redundant system was failed, the UPS will share its load immediately, to ensure system running normally. During the process of the parallel UPS, it does not set the host and the standby one, but was selected by customers flexibly. The first turned on UPS is automatically set to the host, when the host system failed, the host identity immediately transferred to another UPS, thereby ensuring the supply of electricity for clients during the using process, so it could become a true uninterruptible power supply.

Performance Characteristics

1 Function features dsp digital control technology

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

2 Advanced igbt inverter technology

Combined high-reliable and high-efficiency IGBT inverter technology with high-frequency Pulse Width Modulation technology (PWM). It could reduce noise and power loss, to ensure users can load in a variety of working situations and obtain high-quality voltage output and maximum cost-effectiveness, but also make input efficiency more than 95%.

Uranus

3 Pure-online double conversion technology

Reliable and stable, after filtered and regulated, the output sine wave from pure-online 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 product with higher ability to engage in short circuit current. And it can be applied to the worst working environment.

4 Perfect protection

Perfectly system protection functions: It has AC over-voltage, under -voltage, output over-voltage, under-voltage, output overload, short circuit protection, inverter, rectifier over-temperature protection, voltage under-voltage warning, battery over charging protection and other protections in one to ensure the system to operate stably and reliably.

5 Powerful redundant parallel connection function

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 of 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 increased capacity costs, but also expanded upper spaces of increasing capacity.

6 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 risks. Also it could automatically alarm by setting the battery discharge to standby time is less than a set value.

7 Powerful communication system

Standard equipped with RS232 interface, RS485 interface, dry contact interface, emergency switch device EPO input interface. Applicable to RS232, RS485, MODENBUS and other agreements. With the SNMP adapter, the UPS has remote network management capabilities that provide instant UPS data and power information, through a variety of network management system for communication and management.

8 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 amount of electricity, and effective in accordance with the requirements of energy-saving target of the country.

9 Large screen full-color touch screen

Using 7-inch full-color touch screen it can provide a variety of language display, also could provide the both graphical and digital display, suitable for users to view the status, data and operational control, can set their own system parameters, date, output voltage, battery capacity, alarm Function, light load shutdown, the system regularly boot, MODEM settings and other commands, but also can store up to 120 abnormal fault information for users query at any time for grasping the UPS information timely.

10 Super-strong environment adaptability

This product has superior environmental adaptability, wide AC input range, greatly reduces the frequency of battery using , and effectively extends the battery life. All circuit boards are used three anti-technology of dust-proof, anti-fog, anti-salt, which making UPS using life much longer in more in the bad environment.

11 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 120 commonly-used alarm information and internal fault real-time records, and UPS system will automatically record the fault code and time when the machine fails, meanwhile, the contents of the code can be referenced for the user's manual.
   Support "WeChat alarm", "SMS alarm"function, Can send out the notice information timely when the device alarm to meet the need of more mobile and Internet users, and to improve the management and maintenance efficiency of the uninterrupted power supply.
3. Command
   Battery test, system shutdown, parameter settings, and also can shutdown the UPS emergently on the LCD or on remote control panel.
4. Operation parameter setting
   To set the current date, 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 automatically 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.

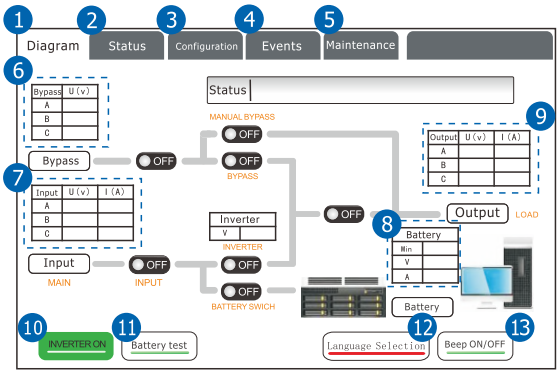
12 Powerful overload ability

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

Inverter Overload Ability reached 110%/125%/150% overloading time can last for 300min/10min/1min.

Bypass Overload Ability reached 150%/170%/250% overloading time can last for 60min/10min/1min.

Touch screen Introduction



1. Diagram
2. Status
3. Configuration
4. Events
5. Maintenance
6. UPS Bypass data interface
7. UPS input data interface
8. UPS battery and others data interface
9. UPS output data interface
10. INVERTER ON/OFF
11. Battery test
12. Language Selection
13. Beep ON/OFF

Internal View

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

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2

3

Applied Scope

- Data center
- Financial and securities
- Postal and telecommunications
- Industrial and commercial tax affair
- Industrial equipment
- Large internet computer room
- Energy and electricity
- Medical and health

Technical Specification

» 6KVA~500KVA 3:3

GT6K~ GT500K(Three-ins and Three outs)

Model	GT6K	GT10K	GT15K	GT20K	GT30K	GT40K	GT50K	GT60K	GT80K	GT100K	GT120K	GT160K	GT200K	GT300K	GT400K	GT500K
Capacity(VA/W)	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	300K/240K	400K/320K	500K/400K
Battery Voltage	384V											480V				
UPS efficiency	⩾95%															
Noise	48～54dB(Distance 1m)				53～60dB(Distance1m)			53～62dB(Distance1m)				54～65dB(Distance1m)				
Size (W×D×Hmm)	485x695x1000				555x740x1220			800x750x1400		1070x750x1400		1420x750x1805		1630x1026x1902		
Weight(Kg) (Excluding battery)	150	170	185	200	275	345	360	390	560	630	750	940	1210	2200	2600	2850

Input	Voltage	3 phase 4 wires and ground,380V/400V ± 25%(208V/220V/230V/240V/415V/440V/480V are available)
	Frequency	50Hz/60Hz±5%（Automaticly）
	Power factor	⩾0.95
Inverter output	Voltage	3 phase 4 wires and ground,380V/400V ± 1%(208V/220V/230V/240V/415V/440V/480V are available)
	Frequency	50Hz/60Hz/± 0.05%(By Battery)
	Harmonic distortion	Linear Load＜3%, Non-linear Load＜5%
	Imbalance voltage	Balance load⩽1%,Imbalance load⩽3%
	Phase shif 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
	Wave form	Pure sina wave
	Transfer time	0ms
Battery	Max. charging current	0.2A×C10
	Charging time(Standard)	12hours
System	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、RS485
	Remote signaling	Dry contact（battery low, battery discharging, bapass/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 differenct 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 maintainence switch

● Remarks:Products specifications are subject to change without notice.

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