



# Uranus Series Low Frequency UPS

10kVA-500kVA 3:3 PF:0.8



## Performance Characteristics

- DSP full digital control technology effectively enhances product performance and system reliability
- Advanced IGBT inverter technology reduces system noise and power loss, with an input efficiency of over 95%
- Dual conversion pure online technology provides full-time protection for the load
- Comprehensive protection features include output overload, short circuit, inverter over-temperature, battery under-voltage warning, and battery overcharging protections
- Powerful redundant parallel capability supports N+1 or N+X configurations with up to 8 units in parallel
- Advanced communication features come standard with RS232, RS485, dry contact, and Emergency Power Off (EPO) interfaces
- Predictive alarm system and startup self-diagnostic function to timely avoid potential failure risks caused by UPS hidden issues
- Large full-color touchscreen display, 7-inch full-color touchscreen, multi-language display
- Strong adaptability to complex environments, standard output isolation transformer included

## Applied Range

Data Centers, Financial Securities, Industrial Manufacturing, Postal and Telecommunication Services, Rail Transit, Energy and Power, Industrial and Commercial Taxation, Healthcare and Medical Services

## Series Overview

Prostar Uranus Series 3P/3P 10kVA-500kVA Low Frequency UPS adopts advanced DSP full digital control processing technology and IGBT high-frequency pulse width modulation technology. The double-conversion online topology structure design enables the UPS output to be a pure sine wave power supply that tracks frequency, phase-locks, stabilizes voltage, and filters out noise without being affected by grid fluctuations. Flexible parallel technology can be applied to different loads and systems, forming N+1 or N+X working architectures based on customer needs, and can also be used for up to 8 units in parallel with different capacities according to different customer requirements. Equipped with an output isolation transformer, static bypass switch, and manual maintenance switch, it has high short-circuit resistance and can be applied to demanding industrial environments, making it suitable for high-performance UPS power supply in critical applications.



## Technical Specification

Model	GT10K	GT15K	GT20K	GT30K	GT40K	GT50K	GT60K	GT80K	GT100K	GT120K	GT160K	GT200K	GT250K	GT300K	GT400K	GT500K	
Capacity (VA/W)	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	300K/240K	400K/320K	500K/400K	
Battery Voltage	384V										480V						
UPS Efficiency	≥95%																
Noise	48~54dB (Distance 1m)		53~60dB(Distance 1m)			53~62dB(Distance 1m)			54~65dB(Distance 1m)								
Size (WxDxHmm)	485x695x1000		555x740x1220					800x50x1400		1070x750x1400			1420x750x1805			1630x1026x1902	
Weight (Kg)	170	185	200	275	345	360	390	560	600	750	940	1170	1200	1240	2600	2850	
Input	Voltage		3 phase 4 wires and ground,380V/400V ± 25%														
	Frequency		50Hz/60Hz±5%(Automaticly)														
	Power Factor		≥0.95														
Output	Voltage		3 phase 4 wires and ground,380V/400V ± 1%														
	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 Shift Angle		Balance load≤±1°,Imbalance load≤±2°														
	Dynamic Transient Range		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 x C10														
	Charging Time(Standard)		12 Hours														
System Performance	Protective Function		Input overvoltage, undervoltage, output overload, short circuit, inverter over-temperature, battery undervoltage, overvoltage														
	Running Temperature & Humidity		Temperature 0~40°C, Humidity 0~95% (non-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														
	Parallel Mode		N+1,N+X,can be in parallel with diferent 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 absorpton,state switches,manual maintenace swich															