



PowerHub



PROMINENT SERIES 300-600KVA
UPS FOR DATA CENTERS

COST-EFFECTIVE PROTECTION FOR
MISSION CRITICAL APPLICATIONS



Prominent 600KVA

Key Features

- Online double conversion
- 0.9 power factor
- Frontal maintenance
- IGBT Rectifier, High Input Power Factor
- N+1 redundancy or hot-standby configuration increases reliability
- Allow 100% three phase unbalance load
- UPS programmable sequential start-up reduces the impact on the generator
- Intelligent fan speed control and redundant fan design prevent UPS from overheating and increase system reliability

PROMINENT series is a double conversion online high frequency UPS with output isolation transformer that is designed for data center and other mission critical infrastructure. Armed with the latest dual-core DSP control technology, PROMINENT UPS delivers improved overall performance in faster operational speed, higher accuracy and 95% high efficiency. This results in a more stable, more precise, more intelligent UPS for the end customer.

Features and advantages

Output isolation transformer

- Electrical isolation ensures better safety
- High impact resistance capacity
- Strengthen short circuit protection
- High output power quality
- Reduce the neutral-earth voltage

Added-value service

- UPS management software
- SNMP & MODBUS communication
- Customized design
- IP grade upgrade & temperature sensor
- Lightning protection device C/D level
- Charging temperature compensation
- Input/bypass isolation transformer

Intelligent battery management

- Automatic boosting and floating charge control, adapt for lead-acid battery
- 20-100A charging current options
- Provide battery self-test function for regular battery maintenance, prolong battery's lifetime



Output isolation transformer

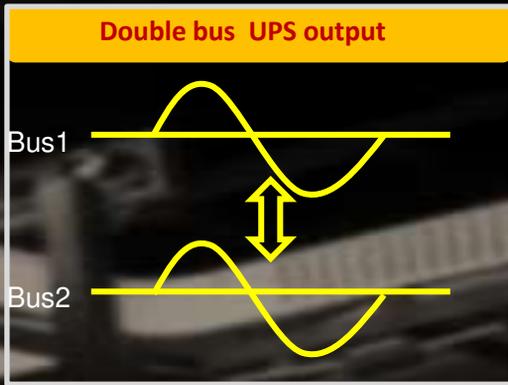
Large display

- 10 inch LCD touch display for easy operation
- More than 10000 historical records.

Advanced communications

- RS232/485 & SNMP communication interface
- Configurable communication interface module
- Point-to-point monitoring
- Alerts users of a power event or pre-specified conditions
- Gracefully shut down your servers
- Remotely supervise and control UPS

Double Bus Synchronization Control

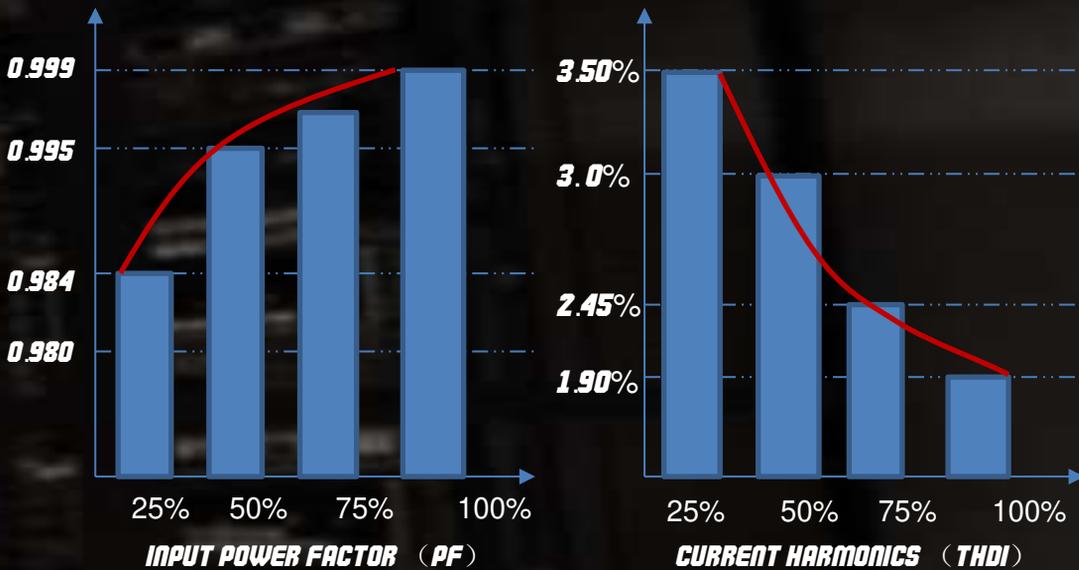


This feature is designed to keep the outputs of two UPS systems that supply the same critical load synchronized with each other. This reduces the transfer time of STS thus providing a more stable and reliable operation when switching the critical load between the UPS systems as and when required.

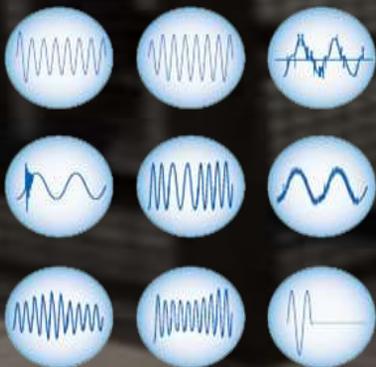


1. Same phase
2. Same frequency
3. Same amplitude

Low Input Power Factor and Current Harmonics



Prominent UPS comes with an input power factor of 0.99 at 50% loads. The advantage of this reduces the input installation cost by using smaller input cables size, fuses and Isolation Transformers. Prominent UPS also manages the input current total harmonic distortion (THDI) at a less than 3%, thus reducing harmonic distortion at the input of the system that will result in greater operation reliability as well as extending the service life of UPS.



Power Protection

Prominent UPS protects against all nine power problems: Power failure, power sags, power surges, under-voltage, over-voltage, electrical line noise, frequency variation, switching transients and harmonic distortion. This comprehensive protection minimises the opportunity for component issues, burnt circuit boards, data crashes and program failures. It offers the highest level of power protection available and are always recommended for mission critical applications like the server farms, hospitals and Data Center.

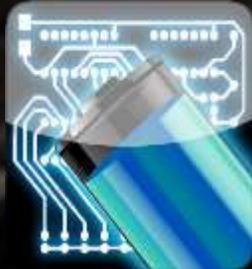
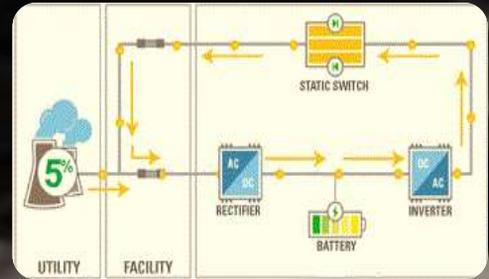
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Advanced Self Aging Function

Self-aging is an advanced function that tests the UPS under different load situation without having to deploy a real load, thus saving more than 90% of energy. In other words, different load conditions can be simulated as and when needed on site.



Smart Charge Current Adjustment

Prominent UPS comes with advanced three-stage charging method. The first stage consists of constant current charging where the UPS performs fast charging to reach 90% of the electricity. The second phase consists of pulse charging where the battery will be brought to fully charged state. The third stage is to maintain constant pressure to ensure no loss of power. This method enhances and extends the life of the battery.

Automatic Fan Speed Control

The speed of the fan varies depending on the heat-sink temperature and the load percentage. A typical UPS system equipped with fixed speed fans operate at a constant high speed thereby consuming the maximum amount of power. In cases where the load is not maximized, the required air circulation within the UPS is less and a lower air circulation rate can be provided at a much lower fan speed, thus a considerable amount of fan electrical energy can be conserved.



Remote Monitoring

Besides having the usual RS232 interface, the UPS can be monitored and controlled via RS485, Dry Contact or Ethernet (SNMP) card. This unique solution allows you to conveniently monitor and manage your UPS with a standard Web browser, while simultaneously providing graceful shutdown for multiple computer systems over the network.

SNMP Card Features

- Comprehensive UPS management with flexible configuration via Web Browser, NMS, Telnet or SNMP.
- Support advance encryption: HTTPS, SSL, SSH, SNMPv3
- Centralized authentication by Radius
- Event notification via E-mail, SMS or Trap
- Support USB Wi-Fi 802.11b/g, USB flash disk / external USB HDD, compatible USB camera & more...

- Support UPS MIB, RFC1628, PPC MIB
- Support GPRS modem
- Multi-language user interface
- Real-time UPS monitoring
- Schedule periodic UPS self-test
- Record event / data log
- Graceful multi-server shutdown
- Battery test log, and more...

PowerHub Prominent UPS Technical Specification

Model Name	Prominent 300 (Ext)	Prominent 400 (Ext)	Prominent 500 (Ext)	Prominent 600 (Ext)
Rated power(KVA/KW)	300/270	400/360	500/450	600/540

Input			Output	
Mains	Rated input voltage	380/400/415Vac	Voltage	380/400/415Vac±1%
	Input voltage range	228-456Vac	THDv	100% Linear load THDv≤3%, 100% nonlinear load THDv≤6%
	Frequency range	50/60Hz ± 10%	Output PF	0.9
	THDi	THDi < 3% (Linear load) THDi < 5% (non-linear load)	Phase difference	< ± 2%
	Input PF	0.99	Efficiency	95%
Bypass	Rated input voltage	380/400/415Vac	Overload	106% to 129% load 10min, 130% to 150% load 10S; 150% load 1S;
	Synchronize range	50/60 ± 6Hz		
Battery	Voltage	384-504Vdc (32-42pcs, battery number adjustable, default 40pcs)	Battery	
			Voltage	384 to 504VDC
			Battery Number	32/34/36/38/40/42 (Optional)

Others				
Noise(dB)	<72dB		<75dB	
EMC	CE(EN/IEC 62040-2; IEC61000-4-2; EN61000-4-3; EN61000-4-6)			
Safety standard	CE/CB(EN/IEC 62040-1; YD/T1095-2000; GB/T4715-93)			
Dimension(W×D×H) mm	1600×1000×1800		2200×1000×1800	
Weight	1400kg	1700kg	2450kg	2550kg
Communication interface	RS232、SNMP、Dry contact (MODBUS optional)			

In the interest of continuous product improvement, all specifications are subject to change without notice

