

GEMIN PRO SERIESTM

Low Frequency Online UPS

120-800KVA(3 Ph in/3Ph out)



► Product snapshot:

Model: 120-800KVA

Nominal voltage: 380/400/415VAC

Nominal frequency: 50/60Hz

Output Power factor: 0.9

Parallel: maximum 6PCS UPS

Indicated language: 12 types (En.Ru.Sp.Fr...)

Efficiency Rate of Machine: ≥94% (≥98% in ECO Mode)

Efficient • Energy-saving • Environmental-protection • Innovation

Gemin Pro series UPS for World's top product, nominal capacity from 120KVA to 800KVA, had application in key equipment for the power system protection, could provide high quality power, a high level of availability and scalability, and invest minimize Total Cost of Ownership (TCO) .

- Using the programmable automatic test software for UPS itself and batteries executes preventive functional testing, and shows the remaining battery capacity. This is helpful to discover in time and eliminating fault hidden trouble.
- Using RS232 or RS485 and auxiliary power supply monitoring software, in our company UPS systems, the UPS in remote parameter display the microcomputer and computer terminals on the network. When abnormality, it can also display historical data and fault occurred frequency statistics in the computer terminal for analysis.



LCD display

A. UPS information

- UPS name.
- UPS model.
- Current time and date.
- Local number for parallel UPS system.
- UPS warning information.

B. Live data

Parameters as below shall be displayed in the LCD screen. All the displayed electric parameters shall be updated one time per 5 seconds. The error less than 2% between display number and the real number.

- Main circuit input
 - Three phase main circuit input voltage.
 - Three phase main circuit input current.
 - Three phase main circuit input frequency.
 - Three phase main circuit input power factor.
- Bypass input
 - Three phase bypass input voltage.
 - Bypass input frequency.
- UPS output
 - Three phase output voltage.
 - Three phase output current.
 - Three phase power factor.
 - Three phase output frequency.
- Load information
 - Three phase load percent.
 - Three phase active power, apparent power.
 - Load power factor.

- Battery
 - Battery voltage.
 - Battery current.
 - Battery backup time prediction.
 - Environment/ temperature.
 - Battery capacity.
- Load for starting up
 - Three phase total apparent power.
 - Three phase total active power.
 - Three phase total reactive power.

C. Records for historical events

- Update Records for Historical events immediately when the fault occurs.
- It can records 10000 historical events at the most.

D. Menu language

- 12 languages

E. Set information is permitted

- Date format.
- Date and time.
- Communication address.
- Communication mode.
- Com1 baud rate.
- Com2 baud rate.
- Com3 baud rate.
- Telephone.

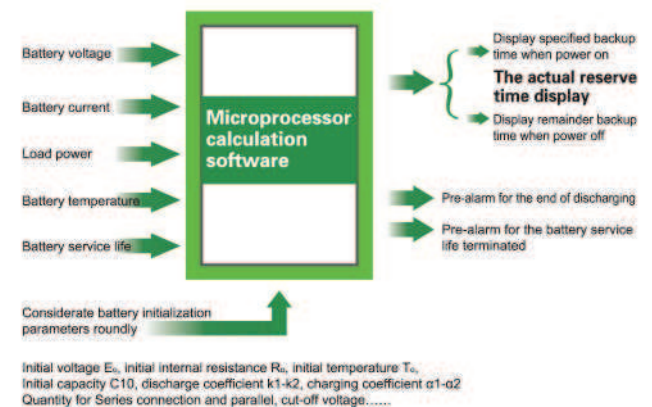
F. Control interface

- Start battery maintenance self-testing.
- Start system self-testing.
- End up testing.

Perfect Battery Management System

High performance battery management consists of charging technology with "constant-current then constant voltage" features and battery monitoring software with strong development function. Excellent performances for the regulate system as follows:

- Charging current-limiting technology is adopted, overcurrent charging will not appear.
- To refuse discharge deeply, it adopt microprocessor monitoring technology that can adjust threshold level of battery's discharge voltage automatically according to users' real capacity.
- Programmable battery monitor software can execute self-diagnosis test regularly and display battery charging capacity and backup time automatically.
- Supply battery charging system with temperature compensation and automatic regulation functions.
- Equipped with battery overvoltage charging protection and automatic equalized charging timing controller.



Unique Option, One-stop Service

- SNMP card
- Parallel card
- Dry contact card
- C class lighting protection case
- Outlet option
- Bypass flow equalize inductance
- Battery temperature transmitter
- JBUS/MODBUS interface card
- UPS generator room signal adapter
- 5 times harmonic or 11 times harmonic filter
- Load busbar synchronization (LBS) cable

Technical Specifications

Model	Gemin Pro series													
	6P	12P	6P	12P	6P	12P	6P	12P	6P	12P	12P	12P	12P	
Rated Nominal	120KVA/108KW		160KVA/144KVA		200KVA/180KVA		300KVA/270KVA		400KVA/360KVA		500KVA/450KVA		800KVA/720KVA	
Rated Input Voltage	380/400/415VAC 3-phase 4-wire													
Rated Frequency	50/60HZ													
Input Parameters														
Input Voltage Range	±25%													
Input Frequency Range	45Hz ~ 65Hz													
Input Soft Start Function	0-100% 5-300S settable													
Input Power Factor	>0.98 (If harmonic filter is added)													
Input harmonic current (THDi)	<4.5% (If harmonic filter is added)													
Bypass														
Bypass Voltage Range	-20% ~ +15%													
Bypass Frequency Range	50/60HZ±10%													
Output Parameters														
Inverter Output Voltage	380/400/415VAC 3-phase 4-wire													
Voltage Stability	±1% (Steady status), ±3% (Transient status)													
Frequency	50/60Hz													
Mains power synchronization window	±5%													
Actually measured frequency accuracy (internal clock)	50/60Hz±0.05Hz													
Output Power Factor	0.9 (Output 90kW per 100kVA)													
Transient Response Time	<5ms													
Inverter Overload Capability	At 0.9 power factor, 110% for 1 hour, 125% for 10 minutes and 150% for 60s													
Short circuit current from inverter	3ph 1.5In for 5seconds, 1ph 2.9In for 5seconds													
Maximum Bypass Capability	1000% for 100ms													
Phase Shift Characteristic	With 100% balanced load		<1°											
	With 100% imbalance load		<1°											
Total Harmonic Distortion(THDv)	100% linear load		<1%											
	100% non-linear load		<3%											
System Efficiency (full load)	Up to 94% (inverter efficiency is up to 98%)													
Rectifier Output Parameters														
Charger output voltage stability	1%													
DC Ripple Voltage	≤1%													
Operating Environment														
Operating Temperature Range	0 ~ 40 °C													
Storage Temperature	-25 ~ 70 °C (inverter efficiency is up to 98%)													
Relative Humidity	0 ~ 95% (Non-condensing)													
Maximum Operating Height	≤Elevation 1000m, for elevation above 1000m, derate by 1% for every increase of 100m													
Noise (1m)	58-68dB													
Protection level	IP20													
Standard	Safety: IEC60950-1 IEC62040-1-1 UL1778 EMC IEC62040-2 CLASS C2 EN50091-2 CLASS A Design and Test IEC62040-3													
Physical Parameters														
Weight (kg)	980	1420	1200	1750	1350	2000	1600	2200	2100	2750	3690	6390	7390	
Dimensions : (Wx D x H)mm	900X855X1900	1250X855X1900	1640X855X1900	1250X855X1900	1640X855X1900	2280X855X1900	2280X855X1900	2280X855X1900	2280X855X1900	2280X855X1900	2835X1000X1950	3955X1090X1950	3955X1090X1950	

STANDARD: Conform to GB/IEC regulation: EMC:GB7260.2/IEC62040-2 GB/17626.2 ~ 5/IEC61000-4-2 ~ 5 SAFETY:GB4943

Note: Product specifications are subject to change without further notice.