Neptune Series Low Frequency UPS

8kVA-100kVA 3:1 PF:0.8

Performance Characteristics

- DSP full digital control technology, with faster computing and processing capabilities
- Dual conversion pure online technology, adaptable to harsh working environments
- User-friendly LCD display interface, 7-inch full-color touchscreen, multi-language display
- Standard output isolation transformer, strong anti-interference capability
- Low power consumption and high efficiency, achieving over 98% high operational efficiency in ECO mode
- Powerful redundant parallel function, reducing users' upfront procurement costs and subsequent capacity expansion costs
- Startup self-diagnostic function, timely avoiding potential failure risks caused by UPS hidden issues
- Rich communication interface, supporting remote monitoring and management of UPS

Applied Range

Network Data Center, Medium-to-Large Scale Office Automation, Scientific Research Institutions, Rail Transit, Airport Customs, Industrial Manufacturing, Government Municipal Administration, Petroleum and Petrochemical Industry

Series Overview

Prostar Neptune series 3P/1P 8kVA-100kVA low frequency UPS adopts advanced DSP technology to provide uninterrupted power supply 7x24 hours for critical loads. The built-in output isolation transformer, static bypass switch, and manual maintenance switch make this series of UPS highly resistant to short circuits, making it suitable for harsh operating environments. In addition, it has comprehensive protection functions to purify various abnormal disturbances in the mains power grid, such as voltage spikes, surges, electromagnetic noise, voltage sag, and power outages. The Neptune series UPS is designed according to industrial environmental standards and has stricter international standard requirements for component procurement and equipment topology, in order to adapt to harsh industrial environments and frequent load changes.

Technical Specification

Model	GM8K	GM10K	GM15K	GM20K	GM30K	GM40K	GM60K	GM80K	GM100K
Capacity (VA/W)	8K/6.4K	10K/8K	15K/12K	20K/16K	30K/24K	40K/32K	60K/48K	80K/64K	100K/80K
Battery Voltage	384V								432V
UPS Efficiency	≥95%								
Noise	48~54dB(Distance 1m)			53~62dB(Distance 1m)					
Size (WxDxHmm)	485x695x1000			555x740x1220			800x750x1400		1200x800 x1800
Weight (Kg)	180	186	215	230	239	285	425	522	750

Input	Voltage	Three phases 4 wires and ground,380V±25%
	Frequency	50Hz/60Hz±5%(Automaticly)
	Power Factor	≥0.95
Output	Voltage	220V±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 diferenct power capacity
	Software Interface	Windows9x,2000,NT,ME,XP,Linux,Novell,Macosx,NT4.0
	Mean Time Between Failures	300,000 Hours
	Optional	Dustproof & dampprof,Isolating inverter transformer, lightning surge absorpton,state switches,manual maintainence swich