RP Series

RP-N Series 3 Phase LF/Transformer Based Online UPS (250-500KVA)



System Introduction

RP-N Series is a high end 3 Phase Input/ Output transformer based UPS system. It adapts the innovative designing concept of integration. It also has significantly improved the efficiency and reliability. Product Performance Index has reached international level. With Multiple Digital Control Modules, such as DSP, MCU, and CPLD, RP-N can be non-prioritized paralleled up to 8 units to lower operating costs without compromising reliability, performance, and availability.

System Features

High Performance Index

- ◆ Advanced Rectifier and IGBT Technology. Input THDI≤4%, Input Power Factor≥0.99 to save more energy.;
- ♦ Wide Input Voltage Range. High adaptive capacity and Generator Capability;
- ♦ High Load Compatibility and short-circuit protection. High Overload Ability;
- ◆ Input Power Factor can be upto >0.99 and THDI<4.5% with optional filters;
- Output Power Factor 0.9 without lagging;
- Self-Evaluation and Alarm of Phase Misconnection or Lost;

Safe and Reliable

- RP-N Series use full-digitized control to operate all power conversion sections during the operations, which has higher system reliability;
- Cooling Fans internal Parallel Redundancy Design;
- Output Isolated Transformer Built-in. It can reduce impacts and interferences from Load Harmonic Wave Current and N-Wire Voltage;
- 90% of system components are from international brands. All devices has been aged and tested for 24 hours before l eaving the factory

Rich Optional Accessories

- ◆ Multiple communication interfaces integrated (RS232, RS485, Dry Contact, EPO, Etc.);
- Optional SNMP communication adapter available

Special Design and Easy Operation

- Front Maintenance. Available for top connections with protection devices.;
- ♦ Intuitive User Interface with large Dot-matrix LCD Screen and multi-functional keyboard

Compatible applications/loads

RP-N Series is designed for many different applications and compatible Loads, such as Data Center, Telecommunication Center, Network management center, financial center Security Trading Settlement Center, Banking. Large Theater, Stadium, traffic Administration Bureau,Road and Railroad Tunnel Lightning Control and Monitoring Center, Port Information Center. Semiconductor production line, automatic production line and related devices.



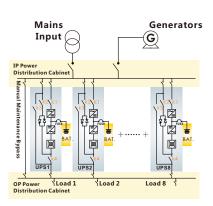




5/7 inch Multi-language LCD+LED









DSP Digital Controller

Specification

Model	RP2500L33-N	RP3000L33-N	RP4000L33-N	RP5000L33-N	
Capacity	250KVA/225KW	300KVA/270KW	400KVA/360KW	500KVA/450KW	
	Host Machine Specification				
UPS Structure	Online Double Conversion				
Appearance	Low Frequency with Output Isolated Transformer				
Overall Efficiency (AC-AC)	94% (With Optional Accessories)				
ECO	98%				
Noise (In 2 Meters)	67dB				
Working Temp.	0-40°C				
Storage Temp.	-15~50℃ (without batteries)				
Humidity	< 95% Non-Condensing				
National Standard	IEC60950-1, IEC62040-1-1				
International Standard	IEC62040-2, IEC62040-3				
Parallel Redundancy	Parallel Redundancy Upto 8 Units				
Protection	Overload, Short-Circuit, Over Temp., Utility Power Voltage High/low, BAT Voltage High/low				
DC Start	Available				
Generator Compatibility	Available				
Display	LCD Display(Multi-Language with all kinds of messages)+LED				
Mute	Auto				
Cabinet Standard	IP20				
Cooling System	Intelligent Speed Control Cooling Fan				
Elevation	< 1500M, Without Derated				
	Rectifier Specification				
Input Voltage	380/400/415Vac+N+W (3 phase + PE)				
Input Voltage Range	298-498Vac				
Input Frequency Range	50/60Hz±10%				
Soft-Start	5-600 Seconds, Adjustable				
Input PF	0.95 (With Optional Input Wave Filter)				
THDI	<5% (With Optional Accessories)				
	Output Specification				
Output Voltage	Output Voltage Line Voltage: 380× (1±1%) AC or Phase Voltage: 220× (1±1%) AC				
Output PF	0.9				
Output Voltage Regulation	380Vac±1%(Static Load);380Vac±2%(50-0% Sudden Change);380Vac±3%(100-0% Sudden Change)				
Voltage Dynamic Response	±5%,(0~100% Sudden Change)				
ltage Dynamic Response Time	<5ms				
Synchronization Range	±5%				
Output Freq	±0.02% (BAT Mode)				
THD	<1% (Linear Full Load) , < 3% (Non-Linear Full Load)				
3 Phase Unbalanced	Allow 3 Phase 100% Unbalanced				
Output Volt. Unbalanced	$<1^{\circ}$ (Balanced Load), $<2^{\circ}$ (50% Balanced Load)				
Input/Output Phase Swift	≤1° (Balanced Load) , ≤				
Frequency Tracking Range	45-65Hz				
Output Waveform	Pure Sine Wave				
Overload	With output PF 0.9, 105%: Long time Operation, 110%: 1 Hour, 125%: 10 Mins, 150%: 1 Min				
Crest Ratio	3 : 1 Circuit Auto Protection, Punces Switch Tripping				
Short-Circuit	Circuit Auto-Protection, Bypass Switch Tripping				
Output Abnormal	INV. Output Auto-Locked Protection				
	Bypass Specification				
static Bypass Transfer Time	Oms				
Static Bypass Range	380/400/415Vac(±10%,±15%,±20% Selectable) 3 Phase+N(3 Phase+N+PE)				
Frequency Range	50/60Hz±10%				
Bypass -> INV Transfer Time	2ms 200% / 5 Mins 1000% (40 Speeds				
Bypass Overload Ability	200%: 5 Mins ; 1000%:10 Seconds				
Manual Maintenance Bypass	Available Rattory Specification				
	Battery Specification				
Туре	Sealed Lead Acid Maintenance Free				
Std. Model Rated Volts/Units	12V,384Vdc/32 Units				
Float Charge Voltage	Equalized Charge, Float Charge, Intelligent Battery Management				
BAT Low	Shutdown Protection				
	Communication Specifica				
Communication Port	RS232/SNMP/485/Dry Contact (Optional Accessory)				
Remote Software	Multi-functional Monitoring System, Online and BAT Mode Status, BAT Fault, Remote Control				
0. (7)	Physical Parameters	252	0		
Size mm(D)	850	850	850	850	
Size mm(H)	1900	1900	1900	1900	
Size mm(W) 6 pulse	1640	1640	2265		
Size mm(W) 12 pulse	2265	2265	2265	2590	
012011111(11)12 pulloo					
Net Weight Kg(6 pulse)	1580	1580	2105		

Note : Specifications are subject to change without further notice.

