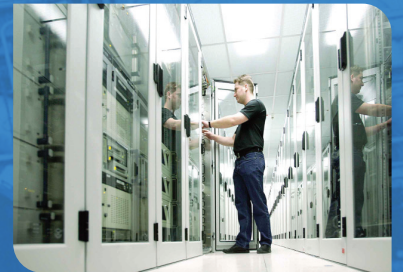


# CHUPHOTIC JUPITER NOVA

Performance Power Solutions

JUPITER NOVA From 10 kVA to 600 kVA



3Phase True Online Double Conversion UPS  
 DSP Low Frequency with Isolated Transformer



มอก.1291  
 เต็ม 1-2553  
 เต็ม 2-2553  
 เต็ม 3-2555



www.chuphotic.com



### Hi Performance UPS

Jupiter NOVA on line intelligent digital UPS congregates the essence of technology and entirely broke the bottleneck technology in traditional simulation circuit era. It adopt the DSP control technology, big power IGBT and static switch as power components. Guided by these most advanced technologies in the world, It is really the first class product. Jupiter NOVA UPS is large power. With power capacity from 10kVA-600kVA.

### Advance DSP Control

The inverter control, synchronization phase, input rectifier control, Logic control of the UPS all adopt DSP digital control. The UPS with high precision, fast speed,comprehension performance and high reliability.

### Intelligent Parallel Technology : N+X

With high parallel ability, can be freely parallel up to 6 units Geminately improve the output power. Each parallel until independence, no host and subordinate requirement, each unit can be the main unit, to make sure the parallel easily achieve.

### N+X in Parallel can be with Common Battery Bank

In the real application parallel system, the traditional UPS must use separate battery and battery bank. The traditional configuration not only add the cost also make the system unreliable. Our new generation DSP. The N+1, N+1 in parallel can be with common battery bank. Highly improve the system reliability , saving the cost

### HMI Design with LED Indicator

Large screen colorized HMI design, easily operation, very convenience for daily management and maintenance. Can timely display the UPS operation parameter the working status. The inner CPU can make record and alarm.

### Flexible Working Operation Selection

Jupiter NOVA UPS with three working mode UPS, EPS and ECO mode. The use can setting the work mode through the touch screen directly. Energy saving design. Beside keep the traditional UPS functions, Jupiter NOVA UPS with ECO operation. In the energy saving mode working.

## Application

- Industrial and Commercial Tax Affair
- Financial and Securities
- Industrial Equipment
- Medical & Health Equipments
- Postal & Telecommunications
- Energy & Electricity
- Hospital, Medical Lab.
- Data Center & Server Room
- Large Internet Computer Room

## Features

- True Online Double Conversion UPS with IGBT design
- DSP Low Frequency, High Reliability Performance
- 3 Phase UPS allow 100% Unbalance Load
- Advance PCB SMD Technology
- IGBT Inverter and Output Isolated Transformer Design
- Wide Input Voltage Range  $\pm 25\%$
- AC/DC Cold Start Function in Power walk-in
- Advance Battery Charging Management
- Intelligent Fan Speed Control
- ECO Mode Function
- Intelligent RS232/RS458 Communication Port
- Dry Contact / SNMP Adapter (optional)
- EPO Function
- Advance no-master-slave parallel Technology
- Intelligent Battery Monitor System – MMBM (optional)
- 12 Pluse Rectifier (optional)
- Bypass Isolation Transformer (optional)
- Parallel Redundancy N+X Function (optional)
- 1000 Record Event log



### Intelligent Detecting System Completely Guard

This system the DSP microprocessor can continuously on line detect the power status, the breaker status and all the circuit working status. When failure happen, the detecting system will immediately inform the operator and synchronized start the UPS completely protection function.

### Intelligent Battery Management IBM

Jupiter series UPS adopt the intelligent battery management system. Can be automatically adjust the battery charge current parameter according to the battery configuration, also can be reach boost and float charge transfer, the temperature compensation and battery discharge management. Beside this Jupiter can detect the battery operation management through the monitor interface to make sure the battery high efficiency operation. The intelligent battery management not only reduces the operator's work force also prolong the battery life time more then 55%.

### Intelligent Fan Speed Control

Fan can adjust rotate speed in accordance with the loading Status to prolong fans life and lower noise.

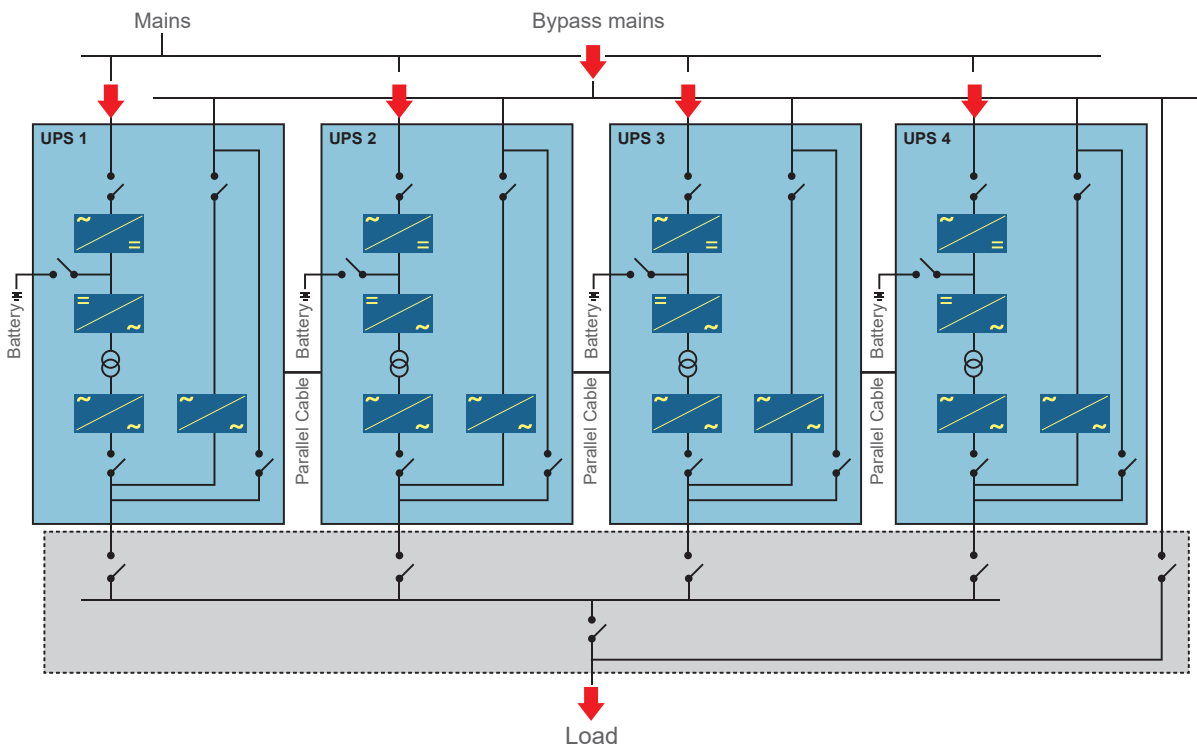
### Manual Bypass Maintenance Design

Design bypass maintenance channel to assure the maintenance on machine without load power break.

### Perfect Protection

It has output over-low load protection, Input surge protection, phase sequence protection, battery over charge-discharge protection, short circuit protection, over temperature protection and so on, as well as alarming function.

## UPS Redundancy Parallel

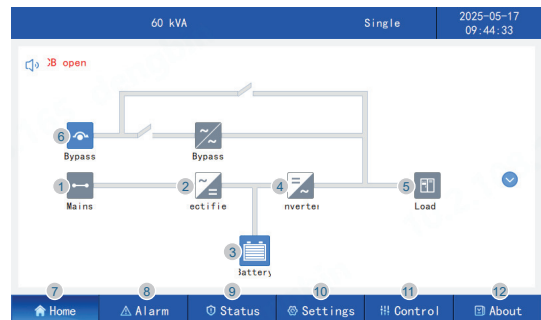


### HMI Touch Screen Display

Touch screen provides a hommization operation interface for UPS. By touch screen, indicator light and user-friendly operation system, user can easily browse the input, output, load, and battery parameters of UPS to get the current status and warning information of UPS in time and to see functions and control UPS. Touch screen can also provide historical alarm log for user, provide a reliable basis for fault diagnosis.

### Panel introduction

- |                 |                   |                  |                |
|-----------------|-------------------|------------------|----------------|
| 1. Mains Output | 2. Rectifier      | 3. Battery       | 4. Inverter    |
| 5. Load         | 6. Bypass         | 7. Home Menu     | 8. Alarm Menu  |
| 9. Status Menu  | 10. Settings Menu | 11. Control Menu | 12. About Menu |



# JUPITER NOVA Three phase in-Three phase out

DSP Online Double Conversion UPS with Isolation Transformer

Model	NOVA3310	NOVA3315	NOVA3320	NOVA3330	NOVA3340	NOVA3350	NOVA3360	NOVA3380	NOVA33100
Power Rating	10kVA	15kVA	20kVA	30kVA	40kVA	50kVA	60kVA	80kVA	100kVA
	9kW	13.5kW	18kW	27kW	36kW	45kW	54kW	72kW	90kW
<b>Technology</b>	True On-line Double Conversion with Isolated Transformer								
Input Power Factor	High Power Factor Corrector PFC >0.82								
Rectifier Type	6 Pulse with EMI-Filter (12 Pulse option)								
<b>INPUT SYSYTEM</b>									
Phase	3 phase 4 wire + PE (3 phase 3 wine + PE option)								
Voltage	L-N / L-L: 220/380Vac ±25%								
Frequency	50/60 Hz ±10%								
Soft Start	0~100% 5sec								
<b>BYPASS SYSTEM</b>									
Phase	3 phase 4 wire + PE (3 phase 3 wine + PE option)								
Voltage	L-N / L-L : 220 / 380Vac (115/200, 120/208, 230/400, 240/415 option)								
Transfer time	0 ms : Zero Transfer								
<b>CHARGER SYSTEM</b>									
Charge Mode	Tri - State Charge (Buck,Boost,Float)								
Float Voltage	384Vdc : 432.0 - 471.6 Vdc								
Boost Voltage	384Vdc : 454.4 - 464.0 Vdc								
Battery Charge Current	10-40A setting								
<b>OUTPUT SYSTEM</b>									
Phase	3 phase 4 wire + PE (3 phase 3 wine + PE option)								
Voltage	L-N / L-L : 220/380Vac ±1% (115/200,120/208, 230/400, 240/415 option)								
Frequency	50Hz/60Hz <±0.2% (Battery Mode)								
Wave From	Pure Sine Wave								
Unbalance Load Voltage	≤2%, compatible 100% unbalance								
Total Harmonic Distrotion	THDv <2% at Full Load (Linear Load) <5% at Full Load (Non linear Load)								
Efficiency (%)	>90% (full load)								
Transfer Time	0 ms : Zero Transfer								
Power Factor	PF 0.9 (PF 1.0 option)								
Overload Capacity	105% Load for 60 mins, 125% Load for 10 mins, 150% Load for 1 min								
<b>BATTERY</b>									
Battery Type	AGM / SLA : Sealed Lead Acid (Maintenance-free) Battery ( Option : UL94-V0)								
Battery Capacity	External Battery Unit								
Battery Voltage	32Pcs : 384 Vdc(360Vdc, 372Vdc, 384Vdc)								
Battery Self-Testing	Automatically Alarm and Estimate Battery in battery abnormal status								
<b>PROTECTION SYSTEM</b>									
Input Protection	Input Voltage / Frequency Over limited, Wrong phase, Lack phase								
Output Protection	Over Current, Short Circuit, Output Over / Under Voltage								
Battery Protectio	Over Charge, Over-Discharge Protection								
Temperature Protection	Ambient over- temperature protection, Inverter over- temperature protection								
Maintenance Bypass	MCB Bypass								
Alarm	Overload, Abnormal AC input, Low battery, UPS Failure								
<b>INDICATOR</b>									
LED / LCD Display (HMI)	AC mains, Inverter, Output, Battery, Rectifier, Bypass, Maintenance, Over Load , Fault								
<b>COMMUNICATION</b>									
Intelligent Port	RS232 / RS485 and MODBUS. (Dry Contacts and SNMP adapter are optional)								
<b>ENVIRONMENT</b>									
Audible Noise	< 65 dB								
Temperature	0~40 °C								
Humidity	RH 0~95% (Non condensing)								
<b>STANDARD</b>									
Safety / EMC / Performance	TIS.1291 : Part1-2553, Part2-2553, Part3-2555 C3 / <b>CE</b> : IEC62040-1,-2,-3, IEC55022, IEC61000								
Manufacturer QMS	TUV : ISO9001:2015 / ISO14001:2015								
Dimension (WxDxH) mm.	570x800x1200				880x760x1600				1160x800x1600
Weight (Kg.)	220	265	270	320	330	475	485	525	800

• All specification subject to change without notice  
• Customer -made specifications are acceptable

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# JUPITER NOVA

## Three phase in-Three phase out

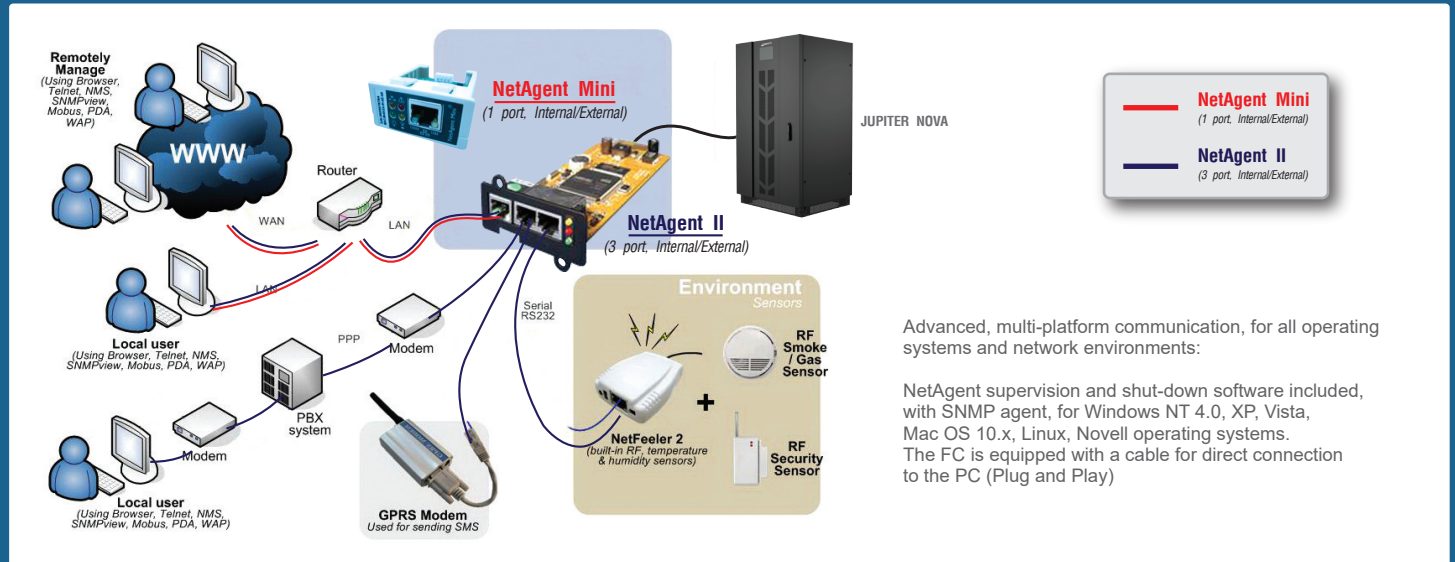
DSP Online Double Conversion UPS with Isolation Transformer

Model	NOVA33120	NOVA33160	NOVA33200	NOVA33250	NOVA33300	NOVA33400	NOVA33500	NOVA33600
Power Rating	120kVA	160kVA	200kVA	250kVA	300kVA	400kVA	500kVA	600kVA
	108kW	144kW	180kW	225kW	270kW	360kW	450kW	540kW
<b>Technology</b>	True On-line Double Conversion with Isolated Transformer							
Input Power Factor	High Power Factor Corrector PFC >0.82							
Rectifier Type	6 Pulse with EMI-Filter (12 Pulse option)						12 Pulse with EMI-Filter	
<b>INPUT SYSYTEM</b>								
Phase	3 phase 4 wire + PE (3 phase 3 wine + PE option)							
Voltage	L-N / L-L : 220/380Vac ±25%							
Frequency	50/60 Hz ±10%							
Soft Start	0~100% 5sec							
<b>BYPASS SYSTEM</b>								
Phase	3 phase 4 wire + PE (3 phase 3 wine + PE option)							
Voltage	L-N/L-L : 220/380VAC (115/200, 120/208, 230/400, 240/415 option)							
Transfer time	0 ms : Zero Transfer							
<b>CHARGER SYSTEM</b>								
Charge Mode	Tri - State Charge (Buck,Boost,Float)							
Float Voltage	384Vdc : 432.0 - 471.6 Vdc						480Vdc : 540-552 Vdc	
Boost Voltage	384Vdc : 454.4 - 464.0 Vdc						480Vdc : 568-580 Vdc	
Battery Charge Current	10-40A setting				10-100A setting			
<b>OUTPUT SYSTEM</b>								
Phase	3 phase 4 wire + PE (3 phase 3 wine + PE option)							
Voltage	L-N/L-L : 220/380VAC ±1% (115/200,120/208,230/400,240/415 ±1% option)							
Frequency	50Hz/60Hz<±0.2% (Battery Mode)							
Wave From	Pure Sine Wave							
Unbalance Load Voltage	≤2%, compatible 100% unbalance							
Total Harmonic Distrotion	THDv : <2% at Full Load (Linear Load), <5% at Full Load (Non Linear Load)							
Efficiency (%)	>94% (Full Load)							
Transfer Time	0 ms : Zero Transfer							
Power Factor	PF 0.9 (PF 1.0 option)							
Overload Capacity	105% Load for 60 mins, 125% Load for 10 mins, 150% Load for 1 min							
<b>BATTERY</b>								
Battery Type	AGM / SLA : Sealed Lead Acid (Maintenance-free) Battery (Option : UL94-V0)							
Battery Capacity	External Battery Unit							
Battery Voltage	32Pcs : 384 Vdc (360Vdc, 372Vdc, 384Vdc)						40Pcs : 480Vdc	
Battery Self-testing	Automatically Alarm and Estimate Battery in battery abnormal status							
<b>PROTECTION SYSTEM</b>								
Input Protection	Input Voltage / Frequency Over limited, Wrong phase, Lack phase							
Output Protection	Over Current, Short Circuit, Output Over / Under Voltage							
Battery Protectio	Over Charge, Over-Discharge Protection							
Temperature Protection	Ambient over- temperature protection, Inverter over- temperature protection							
Maintenance Bypass	MCB Bypass							
Alarm	Overload, Abnormal AC input, Low battery, UPS Failure							
<b>INDICATOR</b>								
LED / LCD Display (HMI)	AC mains, Inverter, Output, Battery, Rectifier, Bypass, Maintenance, Over Load , Fault							
<b>COMMUNICATION</b>								
Intelligent Port	RS232 / RS485 (Dry Contacts and SNMP adapter are optional)							
<b>ENVIRONMENT</b>								
Audible Noise	< 65 dB				< 70 dB			
Temperature	0~40 °C							
Humidity	RH 0~95% (Non condensing)							
<b>STANDARD</b>								
Safety / EMC / Performance	TIS.1291 : Part1-2553, Part2-2553, Part3-2555 C3 / CE : IEC62040-1,-2,-3, IEC55022, IEC61000							
Manufacturer QMS	TUV : ISO9001:2015 / ISO14001:2015							
Dimension (WxDxH) mm.	1200x800x1600			1400x1000x1200			2800x1000x1900	
Weight (Kg.)	900	980	1030	1500	1560	1640	3500	4500

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• Customer -made specifications are acceptable

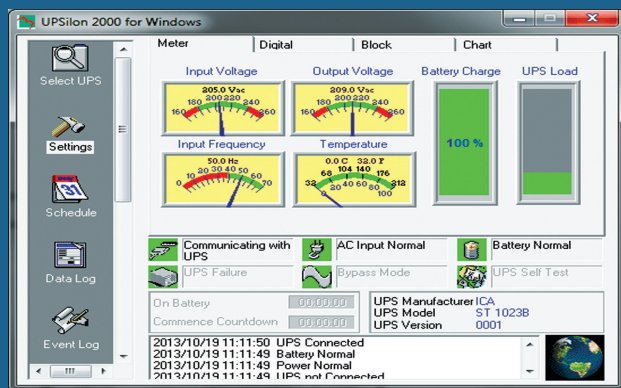
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# Communication and Power Management Solutions



## ADVANCED COMMUNICATION

- 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 NetFeeler II (environment monitoring) with temperature, humidity, water presence, smoke and door / window sensors
- Support USB Wifi 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
- Can also provide shut-down software for: IBM AIX; Free BSD; BSDI UNIX; BSD/OS; SCO Unixware; SCO Openserver; Sun Solaris; Compaq True64; HP UNIX; HP OpenVMS; HP Openview; SGI Irix MIPs; NCR UNIX
- Battery test log



## UPSilon 2000 UPS Monitoring software

For Microsoft Windows 95 / Microsoft Windows 98 / Microsoft Windows NT / Microsoft Windows 2000 / Microsoft Windows Me / Microsoft Windows XP / Novell NetWare, Linux, FreeBSD

- Auto sending warning messages by e-mail.
- Auto sending warning messages by pager.
- Auto detecting AC power failure and UPS battery low.
- Providing the UPS expected time setting of power supply.
- History data recording.
- Auto shutting down the system and turning off the UPS when AC power failed.
- Broadcasting the warning messages to all the workstations.
- Display the system shutdown countdown.
- Able to operate on server and workstation.
- Schedule on/off in a week
- Programmable UPS auto-testing period.
- UPS status reporting on server screen, including the input/output voltage, load, line frequency, temperature and so on.
- Local Network UPS monitoring through an Net Agent or SNMP Agent.

**SNMP**

MIB System

System Name: Administrator

System Contact: Administrator

System Location: My Office

Access Control

Manager IP Address	Community	Permission	Description
****	public	Read/Write	
****	public	No Access	
****	public	No Access	
****	public	No Access	
****	public	No Access	
****	public	No Access	
****	public	No Access	

Trap Notification

Destination IP Address	Community	Trap Type	Severity	Accept	Description	Events
	public	PPC	Information	No		Select Test
	public	PPC	Information	No		Select Test
	public	PPC	Information	No		Select Test
	public	PPC	Information	No		Select Test
	public	PPC	Information	No		Select Test
	public	PPC	Information	No		Select Test

Device Connected

Device	Rating (%)	Connected
	0	NO
	0	NO
	0	NO
	0	NO

SNMP UDP Port

NetAgent SNMP Port: 161

Trap Receive Port: 162

\* System will reboot when this item has been Applied.

Apply Reset Help

## SNMP UDP

This is to configure the UDP port of the NetAgent and trap receiver. SNMP default port is 161; and Trap MIB is UDP162

## AS-400 Card

The AS400 communication card provides contact closures for remote monitoring your UPS. To meet different application requirement, the AS400 card is capable of selection the status of the dry-contact signal (active close or active open) by setting jumper. This suitable applications are listed below:

- IBM Server, Personal PC & Workstations equipments
- Auto-controlled industrial equipment & communication applications

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## Authorized Dealer :