CHUPHOTIC
ชูโฟทิค ยูพีเอส

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
เล่ม 1-2553
เล่ม 2-2553
เล่ม 3-2555

IEC-62040

RoHS compliant

2 WARRANTY

www.chuphotic.com

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
- DC Cold Start Function
- Advance Battery Charging Management
- Intelligent Fan Speed Control
- ECO Mode Function
- Intelligent RS232/RS458 Communication Port
- 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

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 : NX+1

With high parallel ability, can be freely parallel up to 6 pcs. 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+1 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 aldo 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.

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.

Advance Battery Management ABM

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.

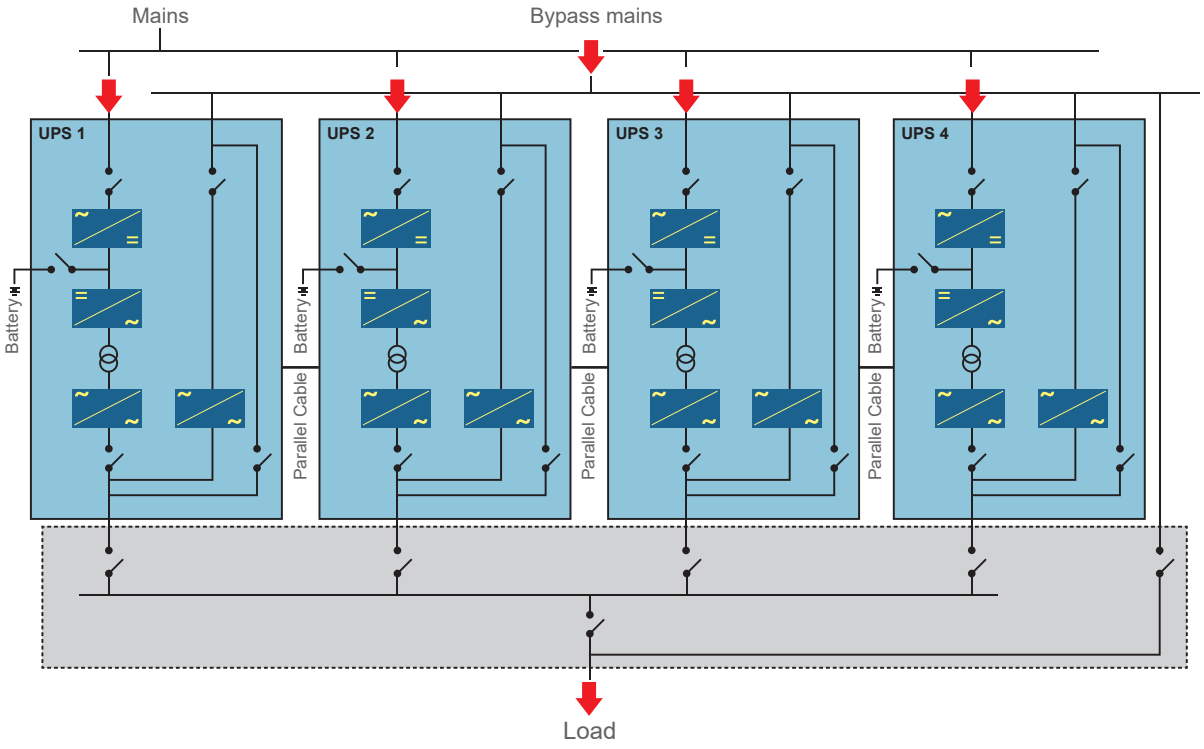
Manual Bypass Maintenance Design

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, indicatior 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. LCD Display
2. Input indicator
3. Output indicator
4. Bypass indicator
5. Battery indicator
6. Overload indicator
7. On buttons
8. On buttons
9. Off buttons
10. Off buttons
11. EPO buttons

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
Technology	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)								
INPUT SYSYTEM									
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								
BYPASS SYSTEM									
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								
CHARGER SYSTEM									
Charge Mode	Tri - State Charge (Buck,Boost,Float)								
Float Voltage	348Vdc : 391.5 - 400.2 VDC								
Boost Voltage	348Vdc : 411.8 - 420.5 VDC								
Battery Charge Current	10-40A setting								
OUTPUT SYSTEM									
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 (%)	>92% (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								
BATTERY									
Battery Type	AGM / SLA : Sealed Lead Acid (Maintenance-free) Battery (Option : UL94-V0)								
Battery Capacity	External Battery Unit								
Battery Voltage	29PCS : 348 Vdc(360Vdc, 372Vdc, 384Vdc)								
Battery Self-Testing	Automatically Alarm and Estimate Battery in battery abnormal status								
PROTECTION SYSTEM									
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								
INDICATOR									
LED / LCD Display (HMI)	AC mains, Inverter, Output, Battery, Rectifier, Bypass, Maintenance, Over Load , Fault								
COMMUNICATION									
Intelligent Port	RS232 / RS485 and MODBUS. (Dry Contacts and SNMP adapter are optional)								
ENVIRONMENT									
Audible Noise	< 65 dB								
Temperature	0~40 °C								
Humidity	0~95% (Non condensing)								
STANDARD									
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.	500x600x1180				500x800x1600				700x800x 1800
Weight (Kg.)	230	250	250	300	400	450	450	520	600

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

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
Technology	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	
INPUT SYSYTEM								
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							
BYPASS SYSTEM								
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							
CHARGER SYSTEM								
Charge Mode	Tri - State Charge (Buck,Boost,Float)							
Float Voltage	348Vdc : 391.5 - 400.2 VDC				384Vdc : 432-441.6 VDC			
Boost Voltage	348Vdc : 411.8 - 420.5 VDC				384Vdc : 454.4-464 VDC			
Battery Charge Current	10-40A setting				10-100A setting			
OUTPUT SYSTEM								
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							
BATTERY								
Battery Type	AGM / SLA : Sealed Lead Acid (Maintenance-free) Battery (Option : UL94-V0)							
Battery Capacity	External Battery Unit							
Battery Voltage	29PCS : 348 Vdc (360 optional)				32PCS : 384Vdc(348/360/372 optional)			
Battery Self-testing	Automatically Alarm and Estimate Battery in battery abnormal status							
PROTECTION SYSTEM								
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							
INDICATOR								
LED / LCD Display (HMI)	AC mains, Inverter, Output, Battery, Rectifier, Bypass, Maintenance, Over Load , Fault							
COMMUNICATION								
Intelligent Port	RS232 / RS485 (Dry Contacts and SNMP adapter are optional)							
ENVIRONMENT								
Audible Noise	< 65 dB			< 70 dB				
Temperature	0~40 °C							
Humidity	0~95% (Non condensing)							
STANDARD								
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.	700x800x1800		1400x10000x1850		1600x10000x1850			3000x1000x1850
Weight (Kg.)	650	825	1280	1568	1830	2050	4500	6500

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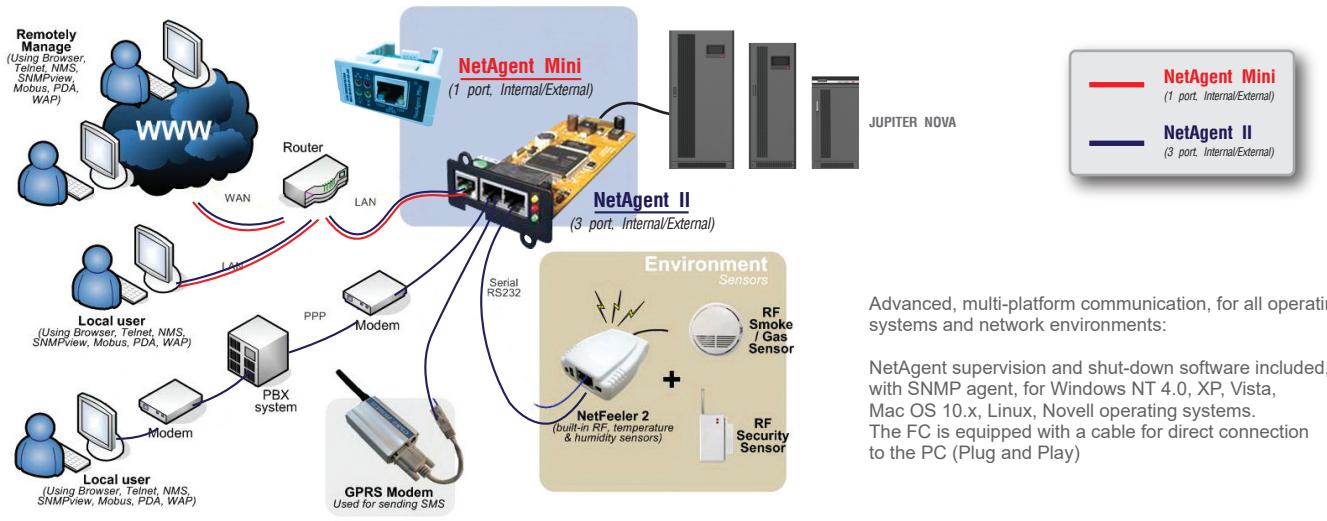
Communication and Power Management Solutions

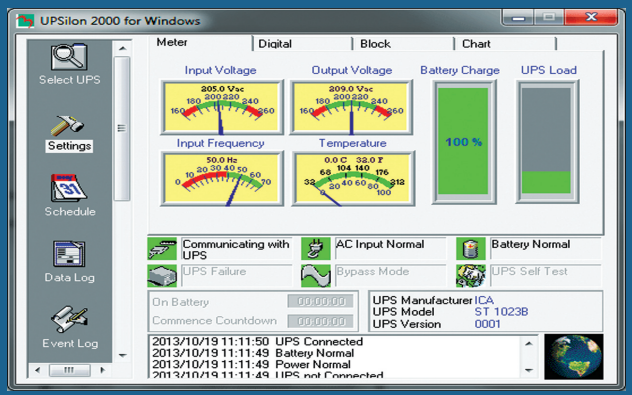


Advanced, multi-platform communication, for all operating systems and network environments:

NetAgent supervision and shut-down software included, with SNMP agent, for Windows NT 4.0, XP, Vista, Mac OS 10.x, Linux, Novell operating systems. The FC is equipped with a cable for direct connection to the PC (Plug and Play)

ADVANCED COMMUNICATION

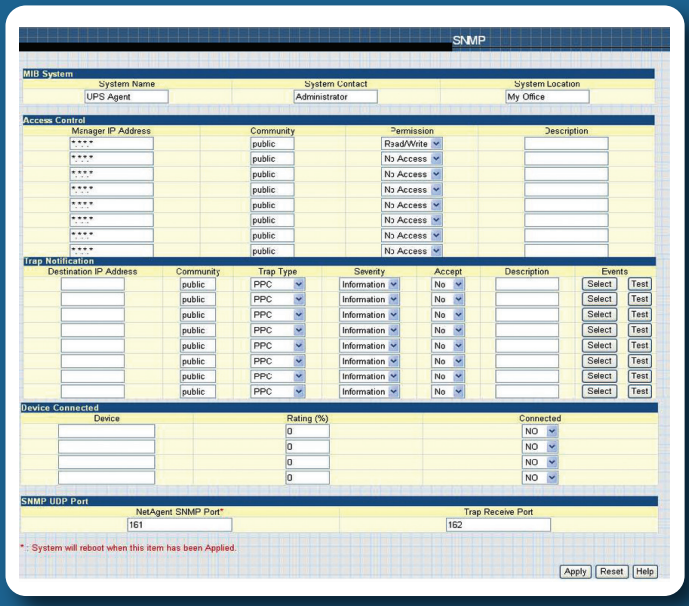
- Comprehensive UPS management with flexible configuration via Web Browser, NMS, Telnet or SNMP.
- Support advance encryption: HTTPS, SSL, SSH, SNMPv3
- Centralized authentication by Radius
- Event notification via E-mail, SMS or Trap
- Support NetFeeler II (environment monitoring) with temperature, 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 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

Energy Wave Company Limited
949 Moo9,Sumrong-Nue, Muang Samutprakarn, Samutprakarn
10270 THAILAND
Tel. : 02 186 3010 (Auto) Fax : 02 186 3018-19
www.chuphotic.com E-mail: ups@chuphotic.com

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