

VENUS ULTIMATE S2.0

DSP TRUE ONLINE DOUBLE CONVERSION UPS



Advance DSP Control Technology

The advance Digital DSP control technology enable UPS more stable performance and with battery quality.

Active Input Power Factor Correction (PFC)

Digitalized control of the PFC enable the UPS to keep the Input power factor above 0.99 to prevent possible electric grid pollution and meanwhile mostly save the cost.

Wide Input and Frequency Range

We intentionally widen the range of input factors to make sure the UPS can apply to various environment, which will Effectively sustain the battery charging even in unstable power environment so that the service life of the UPS could be obviously prolonged.

Adaptive Load Management

This technology allows the UPS to be set up at a fixed 50Hz or 60Hz output while it also can intelligently monitor power usage and automatically sheds and reconnects loads in order to prevent generator overload.

Support the Generator

The wide range of input voltage and frequency can effectively separate the harmful electric wave produces the generators and provide safe and reliable power supply.

High-reliability Parallel Redundancy Technology

N+X parallel redundant technology means that there is a UPS unit providing protection for the key loads. When any one of the system was failure, the UPS could provide the high quality power to the key loads due to the additional one, which makes the system more reliable.

APPLICATIONS

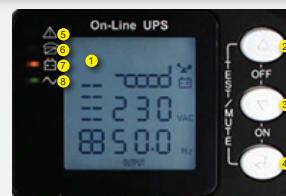


• Industrial Equipment • Postal & Telecommunications • Data Center & Server Room • Hospital, Medical Equipment • Large Internet Computer Room • Financial And Securities

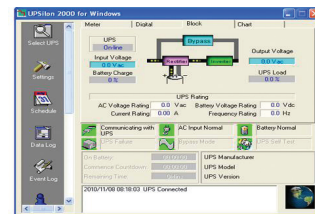
Features

- True On-line Double Conversion UPS
- Advance Digital DSP Control with IGBT technology
- High input Power Factor Correction PFC >0.99
- Low Input Current Harmonic THDi ≤3%
- Output Pure Sine Wave THDv <1%
- Wide Input Voltage / Frequency Range (208-478Vac)
- Included Battery (10-30kVA) / Extension Battery Unit
- Output Power Factor PF0.9
- AC & DC Cold Start function
- Easy Interface LED & LCD Display with Function Switch
- Built in Static Transfer Switch (SCR)
- Advanced Battery Management (ABM)
- Intelligent Forced Wind (Fan speed control)
- Economy mode (ECO : option)
- Emergency Power Off (EPO : option)
- MCB for Main Input, Maintenance Bypass and Output
- Fully Protection Function
- USB communication port, with UPSilon2000 Monitoring
- SNMP/HTTP Capability / Dry Contact, Modbus (Option)
- Parallel Redundant N+X technology(option)
- TIS.1291 part 1 - 2553, part 2 - 2553, part 3 - 2555 : C3
- Certificate CE : IEC62040 - 1,2,3, IEC55022, IEC61000
- ISO9001:2015 / ISO14001:2015 Certified Manufacturer

LED & LCD DISPLAY REAL TIME STATUS



1. LCD Display
2. Enter Switch
3. OFF Switch
4. ON Switch
5. Fault
6. Bypass
7. Battery
8. Inverter



UPSilon 2000 UPS monitoring software



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



IEC-62040



WARRANTY



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DSP TRUE ONLINE DOUBLE CONVERSION UPS

SPECIFICATIONS

Model	Standard UPS	VNU3310S	VNU3315S	VNU3320S	VNU3330S	-	-	-	-	-	-	
	Long Backup UPS	VNU3310L	VNU3315L	VNU3320L	VNU3330L	VNU3340L	VNU3350L	VNU3360L	VNU3380L	VNU33100L	VNU33120L	
Capacity	kVA/kW	10/9	15/13.5	20/18	30/27	40/36	50/45	60/54	80/72	100/90	120/104	
TECHNOLOGY												
Controller	DSP : Digital Signal Processing Controller											
Technology	True Online Double Conversion UPS with Power Factor Correction (PFC) IGBT Technology											
INPUT												
Phase	Three Phase - N + PE											
Voltage Range	220/380 - 35%+25% (380/400/415Vac Selectable) (Range 208-478Vac)											
Bypass Voltage	220/380 ± 10% (380/400/415Vac Selectable)											
Frequency	50Hz ± 10% (45-55Hz) (RANGE 40-70Hz)											
Power Factor	PF ≥ 0.99 at 100% Load											
Input Current Distortion (THDi)	THDi ≤ 3%											
Soft Start capacity	Yes : AC / DC											
OUTPUT												
Phase	Three Phase - N + PE (Selectable)											
Voltage	220/380, 230/400, 240/415Vac ± 1% (200Vac/208Vac option)											
Frequency	Synchronizing with AC input when its frequency are within 50Hz ± 1% with phase shift less than 3 degree, 50Hz ± 0.1% at battery mode											
Wave Form	Pure Sine Wave											
Output Power Factor	PF 0.9											
Total Harmonic Distortion (THDv)	THDv < 1% at Full Load (Linear Load), < 2% at Full Load (Non-linear Load)											
Transfer Time	Zero Transfer Time (0 msec)											
Transient Recovery Time	90% for ≤ 60ms (Full RCD Load) : Step Load											
Overload Capability	125% load for 10 min, ≤ 150% load for 1 min, > 150% for 300ms then automatic transfer to bypass											
Crest Factor	3:1											
Protection	Over/Under Voltage, Overload, Short Circuit, Over Temp., Battery Protection and Low Battery Shutdown											
Efficiency	AC to AC ≥ 96% / DC to AC ≥ 94%											
PROTECTION												
EMI/RFI Attenuation	< 40 dB											
Surge Protection	UL recognized surge protection to Std. UL1449 Cat.A / IEC61643-11, LPZ3											
Surge Energy Dissipation	3x220 joules at 10/1000µsec (Imax=8000A Vclamp 775V)											
Protection Degree	IP30											
Mode system	ECO and EPO Function(option)											
Cooling	Forced Wind (Fan speed automatically change on load varies)											
Maintenance Bypass	MCB for Main Input - Maintenance Bypass											
Parallel Redundancy	N+1 / N+X Parallel Redundancy up to 6 Unit											
BATTERY												
Type	AGM / Sealed Lead Acid Battery Maintenance free (SLA). (UL-94 V0 option)											
Battery Voltage	± 120Vdc with Ext.Terminal					± 240Vdc with Ext.Terminal						
Number of Battery	9.4Ah x 20PCS	9.4Ah x 40PCS			9.4Ah x 60PCS	External : 40PCS						
Charger Standard/Long backup	1-10A Settable				1-15A Settable		1-20A Settable					
Charging Time	6-8 Hours to Cap. 90% after Load Discharge											
INDICATOR&COMMUNICATION												
LED display	Utility Line Normal, Inverter, Bypass, Battery, UPS Fault											
LCD display	Utility Line Normal, Inverter, Bypass, Battery, Load, Battery mode, Frequency, UPS Fault											
Audible alarm	Utility Line Failure, Low Battery, Overload, Fault											
Communication	USB Port : Upsilon2000, Dry Controt, RS485 Modbus (SNMP Adapter Optional)											
Safety/EMC / Performance TIS / CE:	TIS1291 Part1-2553, Part2-2553, Part3-2553 : C3 / CE:IEC62040-1, IEC62040-2, IEC62040-3											
Manufacturer Std.	QMS : ISO9001:2015 / ISO14001:2015											
ENVIRONMENT												
Temperature	0-40°C											
Humidity	0-95 % (Non-Condensing)											
Audible Noise	≤ 65dB at 1 meter											
PHYSICAL												
Dimension (WxDxH) mm	250x830x870					360x830x870			450x850x1500			
Weight (kg)	Standard UPS	115	170	174	230	-	-	-	-	-	-	
	Long Backup UPS	57	63	64	71	73	118	118	122	150	160	

* All specification are subject to change without prior notice.

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บริษัท ชูฟอทิก จำกัด

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