

เครื่องสำรองไฟฟ้าแบบ TRUE ON-LINE

VENUS SMART DSP TRUE ON-LINE DOUBLE CONVERSION UPS 5-20KVA

VENUS SMART 5-20KVA

CHUPHOTIC

TRUE ON-LINE UPS Double Conversion Technology



Features

- True On-line Double Conversion UPS
- Advance DSP Control Technology
- Power Factor Correction (PFC) Design PF >0.99
- Wide Range of Input and Frequency
- Output Power Factor 0.8
- Zero Transfer Time
- Output Voltage 220V \pm 1%
- N+X Parallel Redundancy Function
- True Sine Wave Output with Less than 3%(THD)
- Self-Diagnosis at UPS Start-up
- Advanced Battery Management (ABM)
- Lightning and Surge Protection
- Short Circuit and Overload Protection
- Fan Speed Automatically Changes as Load Varies
- External Battery Bank (Optional)
- Economy Mode (ECO)
- Fully Screen LCD Display
- EMI/RFI Noise Filter
- Manual Bypass for Service Maintenance
- RS232 Communication with UPSilon Monitoring/RS485, USB (Optional)
- SNMP Card/ IP POWER SE Network (Optional)
- TIS 1291-2545/ CE IEC62040
- ISO 9001-2008 Certified Manufacturer

Online High Frequency Design

Adopting the design of smart-wide of high frequency online, It blocking abnormal power to the load impact effectively, and ensuring the stability and reliable of output power, to make the load running safely.

Advance DSP Control Technology

The advance DSP digital control technology enable UPS more stable performance and with better 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.

Widened Range of Input Voltage and Frequency

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

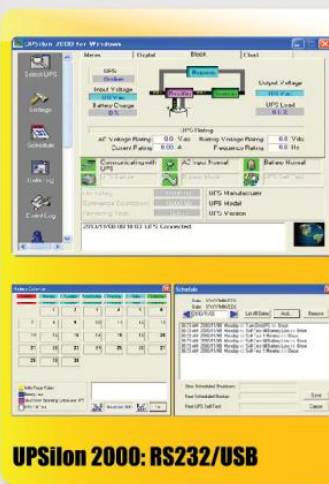
The wide range of input voltage and frequency can effectively separate the harmful electric wave produces the generators and provide safe and reliable power supply.

High- Reliability Parallel Redundancy Technology

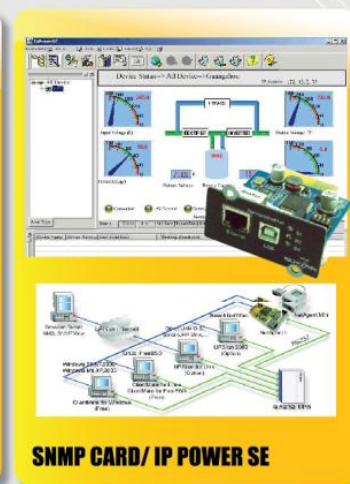
N+X parallel redundant technology means that there is a UPS unit providing protection for the key loads. When any one of the system was failure, the UPS could provide the high quality power to the key loads due to the additional one, which makes the system more reliable.

Sufficient Expansion Slots

The pre-allocated smart slots enable flexibility in choice of USB cards, AS400 cards, CMC monitoring cards, SNMP cards, RS485 and EMD environment monitoring cards.



UPSilon 2000: RS232/USB



SNMP CARD/ IP POWER SE



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Model	VNS5K	VNS6K	VNS8K	VNS10K	VNS10KT	VNS12KT	VNS15KT	VNS20KT
Power Rating	5KVA	6KVA	8KVA	10KVA	10KVA	12KVA	15KVA	20KVA
PF= 0.8 KVA	4KW	4.8KW	6.4KW	8KW	8KW	9.6KW	12KW	16KW
Control Technology	DSP Control High frequency and Double Conversion Online IGBT with Advance Power Factor Correction (PFC) Technology							
INPUT								
Phase	1 Phase 2wire+PE				3 Phase 4wire+PE			
Voltage Range	220VAC +/-25%(176-276Vac)				304-478Vac			
Frequency	46-54 Hz(Adjustable)							
Input Power factor	> 0.99				> 0.95			
OUTPUT								
Phase	1 Phase 2wire+PE							
Voltage	220V±1%							
Frequency	50Hz ±1%							
Efficiency	>90%							
Total Harmonic Distortion	True Sine wave, <2% (Linear Load) , <5% (Non-Linear Load)							
Transfer Time	0 ms							
BATTERY								
Type	Sealed lead acid maintenance free							
Number of Batteries	12V/7.5Ah x 16				-----			
Battery Voltage	192Vdc				192Vdc			
Charging Time	90% capacity after 5 hrs.							
Special Backup Time	Specified by customer (External battery)							
INDICATOR								
LED display	Input, Inverter, Bypass and Battery							
LCD display	Operate mode, Input, Output, Frequency, Bypass, Battery, Load, VA, Watt, Charger, Temperature and Fault Status							
Audible Alarm	Line failure: beep one every 4s, Battery low and Fan fail: beep once every 1s, L-N-G warning: Beep once every 2 min., Overload :Beep 0.5s, Bypass: Beep once/ 2 min, Over temperature and Fault :Beep continuous							
COMMUNICATION INTERFACE								
Intelligent Port	RS232 /USB and SNMP (Optional)							
STANDARD								
Safety	EN62040-1-1							
EMC	EN50091-2,EN61000-4-5, EN61000-3-2/-3							
Manufacture	ISO9001, CE							
European Directive	CE marked compliance LVD/EMC							
ENVIRONMENT								
Temperature	0 °C - 40 °C							
Humidity	0-95 % (non-condensing)							
Audible Noise	<45dB at 1meter							
PHYSICAL								
Dimension (WxDxH) mm	260x570x717							
Weight (kg)	90	90	93	93	55	55	55	55

* All specification are subject to change without prior notice.

EW.Venus-Smart 5-20K BRC Rev.1.00/2011

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