

VENUS Knight - VNK33

DSP TRUE ONLINE DOUBLE CONVERSION UPS



Advance DSP Control Technology

The advance DSP digital 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 Online Double Conversion UPS
- Advance Digital DSP control and 3-level 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 (10-40kVA) / Long Backup (50-120kVA)
- Output Voltage 220/380 ± 1% at Power Factor PF 0.9
- AC & DC Cold Start function
- Easy Interface LED & LCD Panel 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)
- Fully Protection Function
- USB communication port with UPSilon 2000 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
- ISO 9001:2015 / ISO14001:2015 Certified Manufacturer

Advance Intelligent Battery Monitoring System

Intelligent battery monitoring system is specially designed for Battery's daily monitor and maintenance, compose of unit monitor and central monitor. The adopting of data control technology, RS485 interface and online monitor system realizes the real time monitor, record the voltage , charge and discharge current, Temperature of every battery. Unique on line capacity analysis technology and alarm function assist the user find out the abnormal battery easily, hence to reduce the workload of battery maintenance and improve the reliability of the system and the safety the testing. Battery monitor system gains the patent from the national patent bureau, the patent number is ZL01209813.2 option

USB Communication Interface&Software

UPSilon2000 Supported operation system;
 Novell Netware v3.1, v4.x, Microsoft Windows3,
 Microsoft Window95, Microsoft Windows98,
 Microsoft Windows NT, Microsoft Window ME
 Microsoft Windows2000, Microsoft Window XP, Linux
 IBM Sun Solaris are option



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



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SPECIFICATIONS

Model	Standard UPS	VNK3310S	VNK3315S	VNK3320S	VNK3330S	VNK3340S	-	-	-	-	-	
	Long Backup UPS	VNK3310L	VNK3315L	VNK3320L	VNK3330L	VNK3340L	VNK3350L	VNK3360L	VNK3380L	VNK33100L	VNK33120L	
Capacity	kVA/kW	10/9	15/13.5	20/18	30/27	40/36	50/45	60/54	80/72	100/90	120/108	
TECHNOLOGY												
Controller	DSP : Digital Signal Processing Controller											
Technology	True Online Double Conversion UPS with IGBT and Power Factor Correction (PFC) Technology											
INPUT												
Phase	Three Phase - N + PE											
Voltage Range	220/380 -35%+25% (380/400/415Vac Selectable) (208-478Vac)											
Bypass Voltage	220/380 ±10% (380/400/415Vac Selectable)											
Frequency	50Hz ± 8% (46-54Hz) (RANGE 40-70Hz)											
Power Factor	PF ≥0.99 at Full Load											
Input Harmonic Current (THDi)	≤3%											
Soft Start capacity	Yes : AC / DC											
OUTPUT												
Phase	Single Phase + PE / 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)	<1% at full load (Linear Load), <2% at full load (Non-linear Load)											
Transfer Time	Zero Transfer Time(0msec)											
Transient Recovery Time	90% for ≤60ms (Full RCD Load) : Step Load											
Overload Capability	125% load for 10min, ≤150% load for 1min, >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											
EFICIENCY	AC to AC ≥96% / DC to AC ≥94%											
PROTECTION												
EMI / RFI Attenuation	<40dB(A)											
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	±216Vdc			±216Vdc			±216Vdc			±216Vdc		
Number of Battery	12V 9.4Ah x 36PCS			12V 9.4Ah x 72PCS			External : 36PCS					
Charger Standard / Long backup	1-10A Settable			1-10A 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:	TIS.1291 Part1-2553, Part2-2553, Part3-2553 : C3 / CE:IEC62040-1, IEC62040-2, IEC62040-3, IEC55022, IEC61000											
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	320x840x1030			320x840x1400			450x840x970			450x840x1400		
Weight (kg)	Standard UPS	240	250	260	350	370	-	-	-	-	-	
	Long Backup UPS	115	120	120	130	130	160	160	210	240	240	

• All specification are subject to change without prior notice.

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บริษัท ชูปัทิก จำกัด

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