



PowerPACK

Model VNK 10KVA-120KVA



KEPBER TECHNOLOGY CO.,LTD





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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 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.

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



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 (208-488Vac)
- Included Battery (10-40kVA) / Long Backup (50-120kVA)
- Output Voltage 220/380 + 1% at Power Factor PF 1
- Auto Self-Test
- 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





Technical Specifications

Model	Standard UPS	VNK 3310S	VNK 3315S	VNK 3320S	VNK 3330S	VNK 3340S	-	-	-	-	-
	Long Backup UPS	VNK 3310L	VNK 3315L	VNK 3320L	VNK 3330L	VNK 3340L	VNK 3350L	VNK 3360L	VNK 3380L	VNK 33100L	VNK 33120L
Capacity kVA/kW		10/10	15/15	20/20	30/30	40/40	50/50	60/60	80/80	100/100	120/120
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 (3P+N+E)									
Voltage Range		220/380 -35%+25% (380/400/415Vac Selectable) (208-488Vac)									
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		PF1									
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 (AC mode) ≥96% / DC to AC (Battery mode) ≥96% /ECO mode (option) ≥99%									
PROTECTION											
EMI/RFI Attenuation		<40dB(A)									
Surge Protection		UL recognized surge protection to Std. UL1449 Cat.A / IEC61643-11,LPZ3									
Surge Energy Dissipation		3x220joules at 10/1000µsec (Imax=8000A Vclamp775V)									
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									

• All specification are subject to change without prior notice.

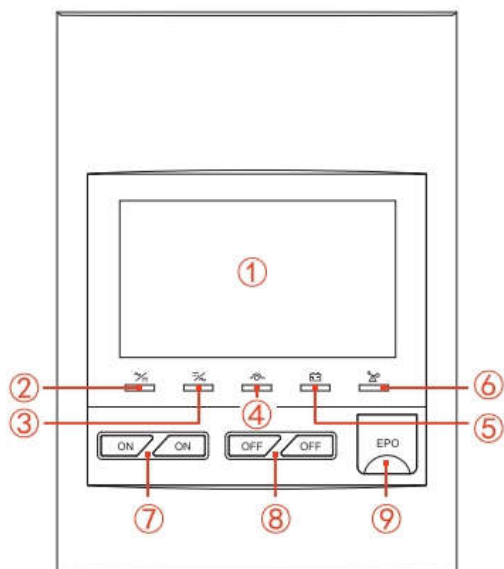


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Capacity kVA/kW		10/10	15/15	20/20	30/30	40/40	50/50	60/60	80/80	100/100	120/120
BATTERY											
Type		AGM/Sealed Lead Acid Battery Maintenance free (SLA), (UL-94 V0 option)									
Battery Voltage		±216Vdc			±216Vdc		±216Vdc				
Number of Battery		12V9.4Ahx36PCS			12V9.4Ahx72PCS		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		4.3" Touch Screen Display (5", 7"or etc. option)									
		Utility Line Normal, Inverter, Bypass, Battery, Load, Battery mode, Frequency, UPS Fault									
Audible alarm		Utility Line Failure,Battery mode, Low Battery, Overload, Fault									
Communication		USB Port : Upsilon2000, Dry Contact, RS485 Modbus, RS232, (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									

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Display



NO	Name	illustration
1	Touch screen	Shows the running parameters (such as voltage, current, load, etc.) and status
2	AC/DC indicator	On (green): bypass output. On (red): bypass abnormal.
3	DC/AC indicator	On (green): inverter works normally. On (red): inverter abnormal.
4	BYP. indicator	On (green): bypass output. On (red): bypass abnormal.
5	BATT. LOW indicator	On (red): battery is low-voltage.
6	OVERLOAD indicator	On (red): output is overload.
7	"ON" combination button	Press the two buttons for 3s, the system will power on.
8	"OFF" combination button	Press the two buttons for 3s, the system will power off.
9	EPO emergency power off button	Press the button, the system will power outage immediately.



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