

Low Frequency Transformer-based Online UPS

AKT-33 Series 10~300KVA



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Application

Its advanced battery charging system enables the UPS to supply a long backup time while the charging time is rather short, and its temperature compensation system can help to prolong the service life of the battery. Also, its circuit is simple, which reduces the number of components and makes the machine more compact and more reliable.

Its true double-conversion online technology provides pure and safe power supply to all appliances, communication equipment and important loads connected to the Internet, and the DSP technology responds quickly to different power supply problems, making sure its load will work uninterruptedly.

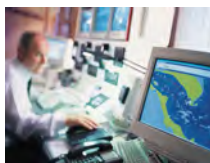
It is compatible to all kinds of loads and widely used in the fields of energy sources, transportation, office, medical equipment, engine-room, data center, toll station and so on.



Energysources



Enterprise



Data center



Electronics



Scientific research



Engine-room

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Function and Feature

- Range from 10kva to 300kva
- True double-conversion online technology
- DSP 100% micro controlled
- N+1 parallel redundant connection
- High efficiency > 92%
- Dual power supply (selectable)
- Accept 100% unbalanced load
- Cold start
- Intelligent battery control
- Compatible with generators
- Powerful communication system (RS232. SNMP. GPRS)



30-40Kva Appearance

■ Advanced Communication Function

With the use of communication interface and monitoring software, you can monitor this UPS on your computer, which simplifies the management of power supply. You can also choose to buy a SNMP card, which is compatible to all kinds of operating system, and supports TCP/IP, SNMP, HTTP Protocol, so as to monitor the UPS through internet. Moreover, it will be easier to achieve central management even users are scattered in different places and it can also diagnose network and maintain the system remotely, realizing global management in a very real sense.

1. Software monitoring through RS232

There is a RS232 interface on the back panel of the UPS, which can be used to connected the UPS to a computer by a communication line so as to monitor the UPS. The distance between the UPS and its monitoring equipment is better to be less than 10 meters and better to use the USB cable which is called trendnet tu-s9. The hyper terminal in the computer will monitor the UPS and this software is already installed in "Window's" and "Window xp" system or you can download a newer edition from Internet.

The window of running this program is shown as the graph on the right :



2. Monitoring through network adapter

With the use of network adapter, information can be exchanged through local area network or Internet, so a network adapter can monitor a UPS at a time or many UPS simultaneously, depending on user's wishes.

- 2.1 Thanks to http server, UPS will become a small server so any computer can do the monitoring job by entering the IP address of the UPS.
- 2.2 The other way is to use SNMP. Our company will provide a software that can drive SNMP (NetAgent Utility) to monitor the UPS in real time.

3. Monitoring through GPRS

Specifications of the UPS can be monitored or set by exchanging information through MODEM GPRS. As long as users register information of the UPS on the Internet, he will be able to check information of the UPS on the website and he will also be able to schedule for the UPS as well. As a result, no matter what happen to the UPS, an email or a message will be sent to the user's mobile phone. This way can be very helpful in the area, which has no LAN, Internet or is far away.

- ◇ All the network information, operating process and software CD will be sent to the user along with the product.

30-40Kva Appearance



100-120Kva Appearance



MODEL	AKT-33 10~20kVA	AKT-33 30~40kVA	AKT-33 60~80kVA	AKT-33 100~120kVA	AKT-33 160~200kVA	AKT-33 250~300kVA
Capacity	10/15/20Kva	30/40Kva	60/80Kva	100/120Kva	160/200Kva	250/300Kva
UPS(WxDxH)mm	400x750x970	410x810x1070	500x980x1320	505x1060x1420	848x1117x1876	1600x1180x1960
Pack(WxDxH)mm	478x836x1141	515x825x1310	603x1170x1500	603x1190x1586	948x1325x1985	1760x1301x2168
UPS weight (kg)	146/165/183	238/264	353/430	540/566	960/1080	1540/1745
Temperature	0°C ~ 40°C					
Relative humidity	0 ~ 95%, non condensing					
Noise	< 60db at 1.5m from surface of unit					
Altitude	1000m(height rises every 100m, power decreases 1%, maximum height is 4000m)					
Efficiency	Power saving mode > 98%, Inverter > 92%, AC-AC > 91%					

▼ Technical Parameter

MODEL	AKT-33 10~20kVA	AKT-33 30~40kVA	AKT-33 60~80kVA	AKT-33 100~120kVA	AKT-33 160~200kVA	AKT-33 250~300kVA
Transference	0ms cutless					
Technology	True double-conversion online technology, conversion performed by IGBT					
INPUT						
Voltage	3x220/380 vac ± 25%					
Frequency	50Hz ± 15%					
Conductors	Three phases+N+E					
OUTPUT						
Voltage (selectable)	3x220/380 vac ± 1% (More voltage can be selected)					
Frequency	50Hz ± 0.1%					
Waveform	Pure sine wave generated by high frequency PWM inverter					
Harmonic Distortion	<2% Linear load/<5% Nonlinear load					
Crest Factor	3:1					
Power factor	0.8 or 0.9					
Overload recuperation	Automatic transfer to normal					
Voltage regulation	Load balance:±1%					
Overload capacity	125% for 12 minutes / 150% for one minute					
Conductors	Three phases+N+E					
Battery						
Type	Maintenance – free sealed lead-acid battery, 12V*32 batteries					
Full load autonomy	3 to 15 minutes. extended-range capability					
Typical recharge time	4 ~ 8 hours, 90%					
Battery behavior	Autotest. Transfer Point Adjustable battery and alarm setting					
Battery protection	Fuse protection, battery switch, temperature compensation, regular inspection, software protection, overvoltage tripping.					
Rectification	Software protection, input switch, over current protection, temperature protection					
Protection						
Hardware protections	Breaker for input, output, battery and bypass. Fast acting fuses in DC, fans, redundant power supplies, temperature sensors, on-o switch and audible alarms.					
Bypass	Static solid state, automatic and manual operation without interruption for maintenance. External Bypass (optional)					
Emergency switch	Remote and/or local EPO					
Supervisory control and communication						
Frontal panel	Interactive LCD display(Touchscreen)					
Alarms	Audible and visual alarm for abnormal conditions					
Communications	RS232, SNMP-RJ45, GPRS (RS232&RJ45 standard, the other is optional)					