



## JV33 Series

### UPS 60-200kVA

- » 3 level IGBT rectifier and inverter
- » High Efficiency up to 96.5%
- » Output PF 1.0
- » High ambient temperature up to 50 °C
- » Fault Trace Management
- » Colorful LED bar



Finance



Telecommunication



Data Center



Government



Energy



Medical



Transportation



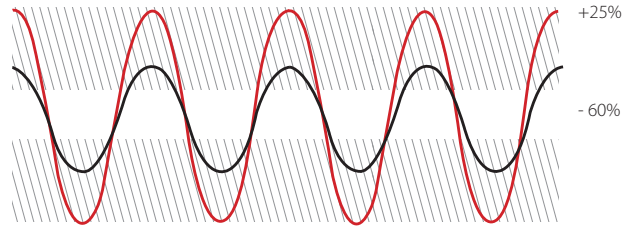
Electricity

# JV33 Series UPS



## High Reliability

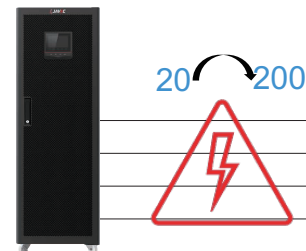
- Wide input voltage and frequency range with high grid adaptability and prolong battery life.
- Separate internal air channel which hot air drives directly towards heat sink without distressing the PCB's and other internal sensitive components, improving the components service life and UPS reliability
- High overload capacity on inverter and bypass
- The most advanced and dual DSP control prevents single failure point and increase performance.
- Intelligent fan control and redundant design: 15% load can be driven when 2 fans fail and 40% load when 1 fan fails
- Integrated with input,output,bypass breaker and manual bypass switch for better protection of system.
- All-round conformal coating to all PCB boards, protect electronics from environmental effect and corrosion.
- Standard dust filter protect UPS placed in dusty environment.
- High short circuit capacity with time duration settable from 20~200ms which provide high protection for system.
- Cold start function which allow UPS start on battery when grid isn't available.
- Bus synchronization control function provides reliable high power for dual bus application
- Power walk in function decrease the inrush to mains or generator.
- Start up delay function, to sequentially restart the rectifiers once the mains power supply is restored if there are several UPS within the overall system
- No derating operate up to 40°C and continuously running under high ambient temperature up to 50°C with auto-derating.



wide input voltage range

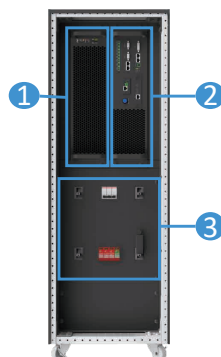


Automatic fans control

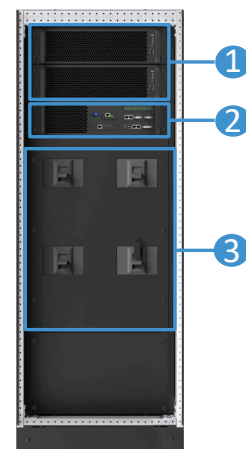


Short circuit time

- 1 Power unit
- 2 Bypass and control unit
- 3 Power distribution unit



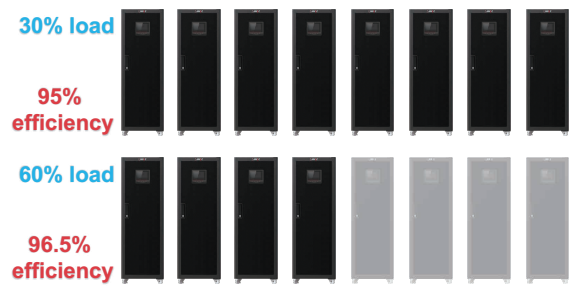
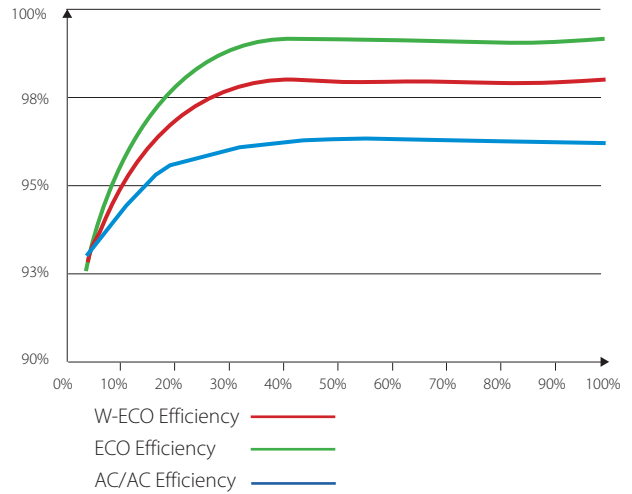
60-120KVA



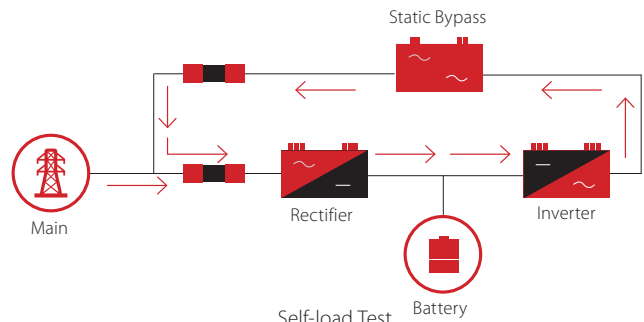
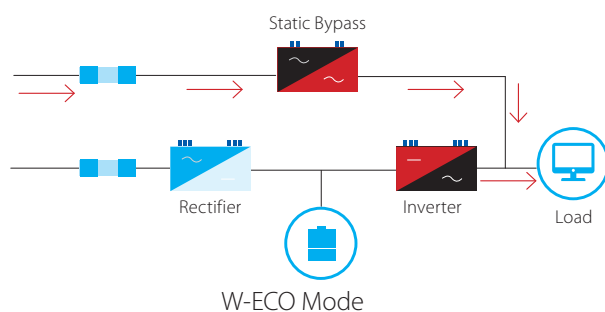
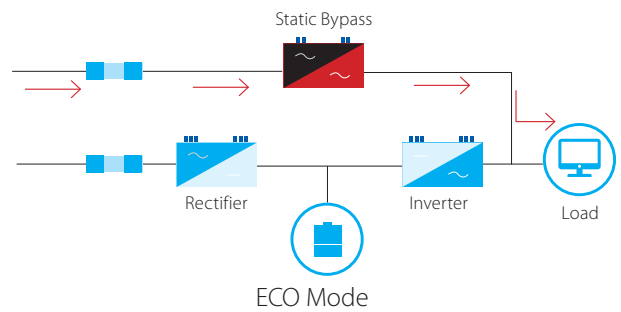
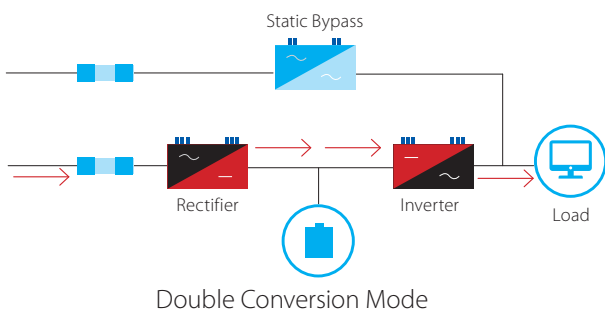
160-200KVA

# Green power

- Latest generation IGBT and three level technology, Low harmonic, high efficiency, effectively energy-saving.
- High power density design, which small footprint on 120KVA only 0.38m<sup>2</sup> for saving installation space.
- High input power factor up to 0.99 and low Input THDi: < 3.0% at full load, much less grid pollution and costs
- AC/AC efficiency up to 96.5% and 30% load up to 95% efficiency reduces heat dissipation and limits power consumption costs
- ECO mode efficiency up to 99.2% lead to significant cost reduction
- W-ECO mode could reach 98.5% efficiency, THDi below 5% and transfer time below 4ms to reduce TCO.
- Self-load test function, easy debugging and easy onsite test during commissioning, before it is connected the real load, without using costly temporary loads, cabling and breakers for energy saving.
- Parallel ECO mode maximum whole system efficiency.
- Intelligent sleep mode which UPS sleep in random keep maximum efficiency and energy saving.
- 8 units of intelligent paralleling helps to achieve maximum capacity up to 1.6MW.



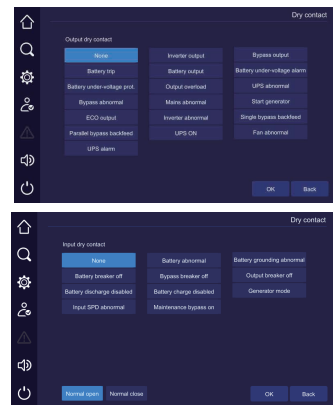
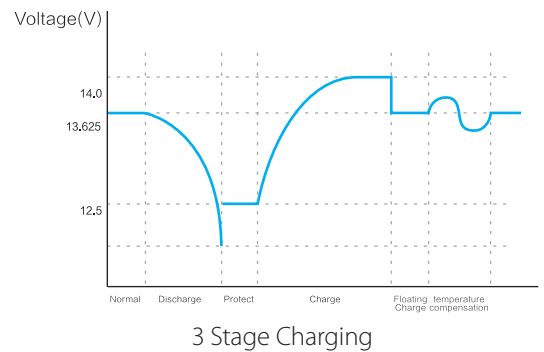
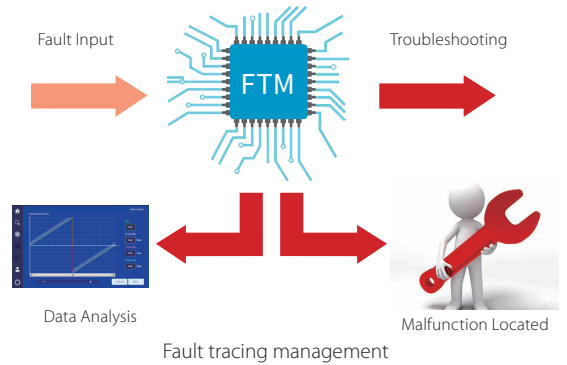
Intelligent Sleep Mode



# JV33 Series UPS

## Intelligent Management

- Fault Trace Management (FTM) for convenient failure analysis (waveform record before & after of the fault point for 200ms) which easily figure out faulty point.
- 3 stage battery charging prolong the service life of batteries
- Intelligent battery management and multiple setting, 28-48 pcs batteries per string allow customers to get the faulty battery out instead of replacing it
- Key components pre-alarm function which precaution the system fault and remind service for key components, like capacitor, fan.
- Full asset management record the spare parts replacement, timeline and service people.
- Cabinet temperature detect and pre-notification which prevent over temperature.
- Smart programmable dry contact which have 5 input dry contact and 3 output dry contact, which input dry contact have more than 10 functions and output dry contact have 18 functions allows to be settable at site.
- Smart generator mode which allow UPS send signal to turn on and off generator, also taking part power from battery to compensation generator capacity.
- Self-dedusting function which save the preventive service time.
- Common battery bank on parallel mode.
- Frequency converter function (60Hz to 50Hz or 50Hz to 60Hz)
- VRLA and Lithium battery compatible design



Programmable Dry Contact



Common battery bank



Frequency Converter Mode

## User Friendly Interface

- User-friendly double physical ON/OFF button design to avoid false operation.
- User-friendly graphical interface with Single-line mimic diagram showing system status.
- Colorful 4.3 inch and 7 inch touch screen with LED Indicators, ensure comprehensive and visualized information display.
- Multicolor LED bar allowing quick and easy detection of the system status and simplified troubleshooting.
- Multi-language build-in display with Chinese, English, French, Spanish, Italian, Polish, Russian, Korean.
- High security access with separate password levels for users, technician and service engineers
- Large data storage capacity, 10000pcs events logs.
- Support firmware online update, one time update for touch screen, power unit, bypass unit and extended card.
- Main unit display allow to check the information of each UPS status during parallel mode.



4.3 inch Touch Screen

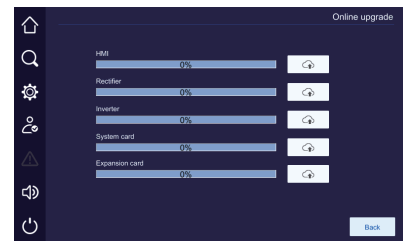
7 inch Touch Screen



Normal Mode

Bypass Mode

Warning Mode



U disk Upgrade

## More Options

- Flexible Network Management: SNMP
- Expanded dry contact kit (4 in 4 out)
- BMS kit for lithium battery communication
- Intelligent Battery Monitoring System
- Battery tripping kit
- N+X in parallel
- Input and output isolation transformer
- SPD: C Grade
- Battery Charge Temperature Compensation



BMS Kit



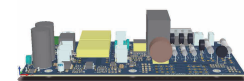
Expanded Dry Contact Kit



C Level SPD



SNMP kit



Battery tripping kit

### Technical Specifications

MODEL	60kVA	80kVA	100kVA	120kVA	160kVA	200kVA
<b>INPUT</b>						
Voltage (Vac)	380/400/415 (138~485 L-L)					
Frequency (Hz)	40~70					
Power Factor	≥0.99					
Phase	3φ4W+PE					
THDi at full linear load	<3%					
<b>BYPASS</b>						
Bypass Voltage (Vac)	380/400/415: -20%~+15%					
Frequency Range (Hz)	50/60(±5%/±10%)					
Overload	≤130%: long run; 130%< load ≤150%: 5min; 150%< load ≤200%: 1s; 200%< load≤300%: 100ms; >300%: immediately.					
<b>OUTPUT</b>						
Capacity (kVA)	60	80	100	120	160	200
Power Factor	1 (0.5 leading to 0.5 lagging)					
Voltage (Vac)	380/400/415±1%					
Frequency (Hz)	50/60±0.1% (Battery mode)					
Phase	3φ4W+PE					
Three Phase Difference	≤1%					
Waveform	Pure sine wave, THDv<1% at linear load,THDv<3% at non-linear load					
Transfer Time (ms)	0					
AC-AC Efficiency	up to 96.5%					
Overload*	101-105% Long run, 106-110% load for 60 minutes, 111%-125% load for 10 minutes, 126%-150% load for 1 minute, over 150% load transfer to bypass					
<b>BATTERY</b>						
Battery Voltage (Vdc)	±192(±168 ~±288 adjustable)		±240(±168 ~±288 adjustable)			
BATT Type	External					
Charging Current (A) MAX	30				60	
<b>GENERAL</b>						
Communication Interface	RS485, MODBUS, dry contact (RS232, BMS,SNMP, expend dry contact card are optional in slot)					
Display	4.3-inch Touch screen+LED+LED bar				7-inch touch screen+LED+LED bar	
Alarm	AC input abnormal, low battery, overload, failure					
Protection	Output short-circuit, overload, over-temperature, battery low voltage, output over/low voltage					
Noise (dB)	<65					
Altitude(m)	0-2000 no derate. 2000-3000 m derate power by 1 % per each 100 m increase					
IP	20					
Working Temperature (°C)	0 ~ 40 no derate,40~50 auto derate.					
Relative Humidity	0 ~ 95%, no condensation					
Dimension (WxDxH)(mm)	400x960x1200				600x1000x1600	
Weight (kg)	145	159	161	161	260	260

• Specification is subject to change without prior notice.

\* 120kva overload 101-105% Long run, 106-110% load for 60 minutes, 111%-125% load for 10 minutes, over 125% load transfer to bypass.

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