KEHUA TECH

MY Series UPS
60-200kVA

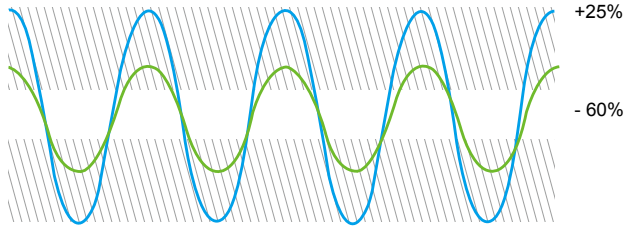
Stock Code
002335.SZ

Kehua Data Co., Ltd.

www.kehua.com

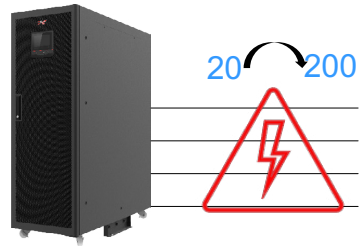
High Reliability

- 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 effection 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 continiously running under high ambient temperature up to 50°C with auto-derating.



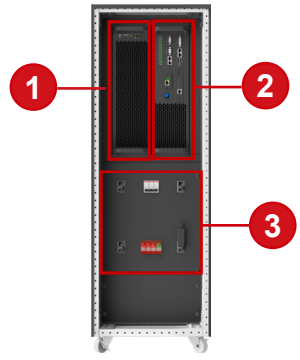
Wide input voltage range


Automatic fans control

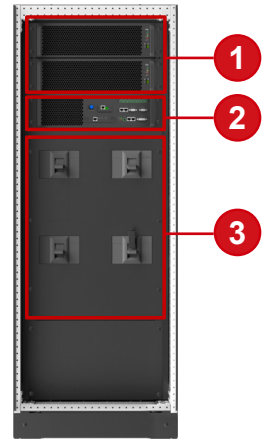


Short circuit time

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



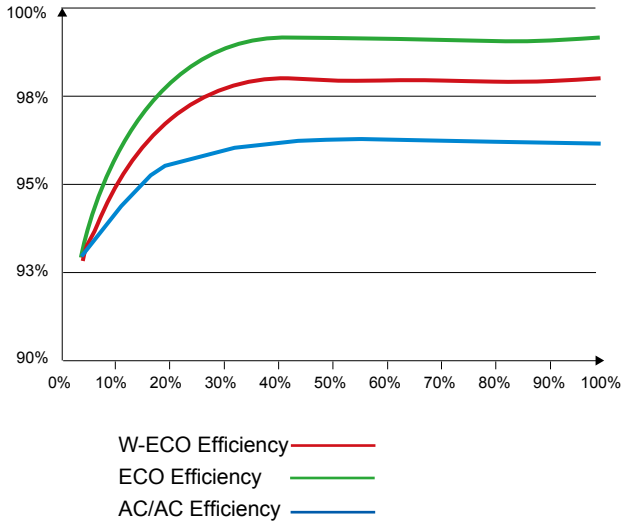
60-100KVA



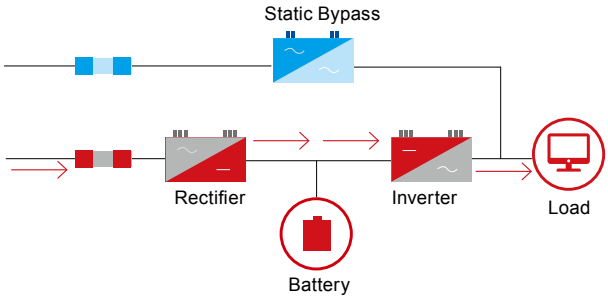
200KVA

Green Power

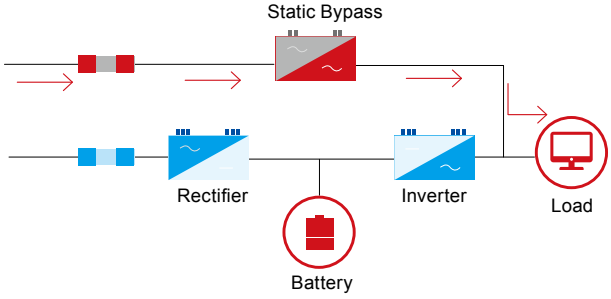
- Advanced IGBT and three level technology, Low harmonic, high efficiency, effectively energy-saving.
- High power density design, which small footprint on 100KW only 0.38m² for saving installation space.
- High input power factor up to 0.99 and low Input THDi: < 3.0% at full load, much less grid pollution 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 effciency.
- Intelligent sleep mode which UPS sleep in random keep maxinum efficiency and energy saving.
- 8 units of intelligent paralleling helps to achieve maximum capacity up to 1.6MW.



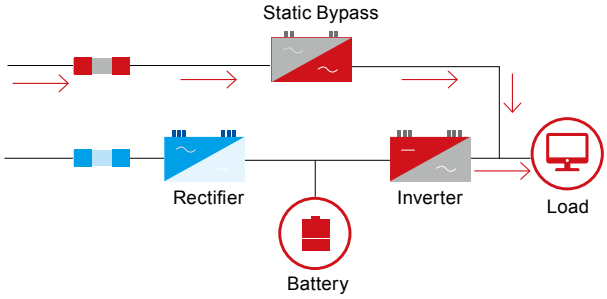
Intelligent Sleep Mode



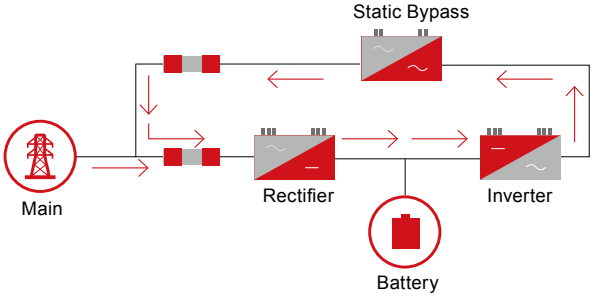
Double Conversion Mode



ECO Mode



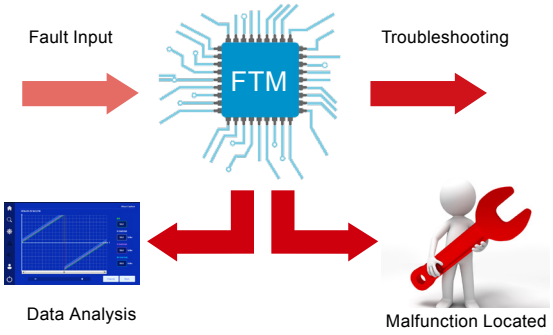
W-ECO Mode



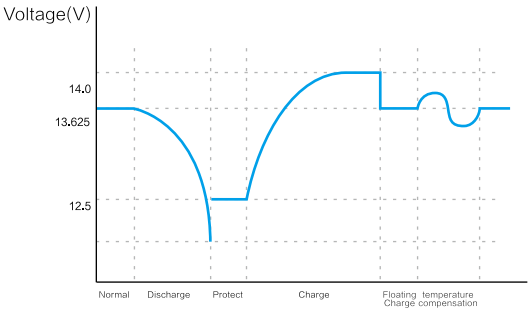
Self-load Test Mode

Intelligent Management

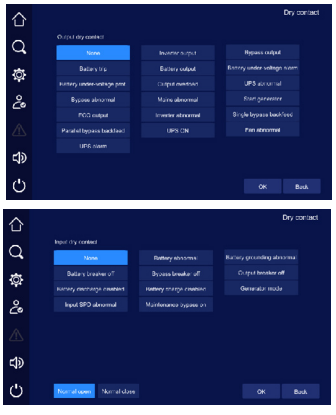
- Fault Trace Management (FTM) for convenient failure analysis (waveform record before & after of the fault point for 200ms) which easily figure out faulty point.
- 3 stage battery charging prolong the service life of batteries
- Intelligent battery management and mutiple setting, ±14~±24 pcs batteries 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 settable at site.
- Smart generator mode which allow UPS sent 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



Fault tracing management



3 Stage Charging



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" and 7" 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 10,000pcs 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" Touch Screen

7" Touch Screen

Normal Mode

Bypass Mode

Warning Mode

U disk Upgrade

More Options

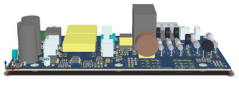
- Flexible Network Management: SNMP
- Expanded dry contact kit (4 in 4 out)
- BMS kit for lithium battery communication
- Intelligent Battery Monitoring System
- Battery tripping kit
- N+X in parallel
- Input and output isolation transformer
- SPD: C Grade
- Battery Charge Temperature Compensation

BMS Kit

Externded Dry Contact Kit

C Level SPD

SNMP kit



Battery tripping kit

Technical Specification

MODEL	MY60	MY100	MY200
INPUT			
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%		
BYPASS			
Bypass Voltage (Vac)	380/400/415		
Voltage Range	+20% (-10/-15/-30 selectable)/+15% (10/20/25 selectable)		
Overload	≤130%: long run; 130%< load ≤150%: 5min; 150%< load ≤200%: 1s; 200%< load≤300%: 100ms; >300%: immediately.		
OUTPUT			
Capacity (kW)	60	100	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		
BATTERY			
Battery Voltage (Vdc)	±192(±168 ~±288 adjustable)	±240(±168 ~±288 adjustable)	
Battery Type	External		
Charging Current (A) MAX	30		60
GENERAL			
Communication Interface	RS232, RS485, MODBUS, dry contact (BMS,SNMP, expend dry contact card are optional in slot)		
Display	4.3" Touch screen+LED+LED bar		7" 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	<70	
Altitude(m)	0-2000 no derate. 2000-3000 m derate power by 1 % per each 100 m increase		
IP	IP20		
Working Temperature (°C)	0 ~ 40 no derate,40~50 auto derate.		
Relative Humidity	0 ~ 95%, no condensation		
Dimension (W×D×H)(mm)	400×960×1200		600×1000×1600
Weight (kg)	145	161	312

• Specification is subject to change without prior notice.

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