KEHUA TECH

KR11-RM Series
UPS 1-10kVA

Stock Code
002335.SZ

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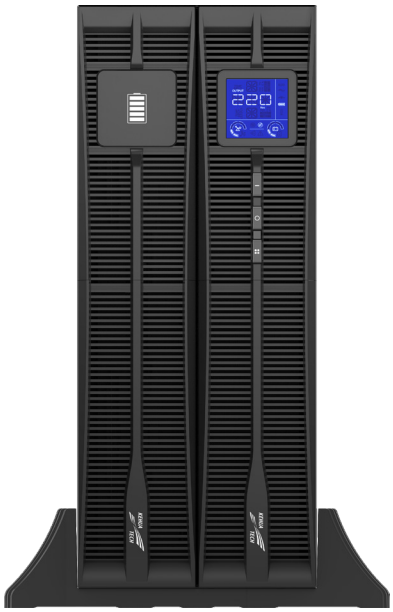
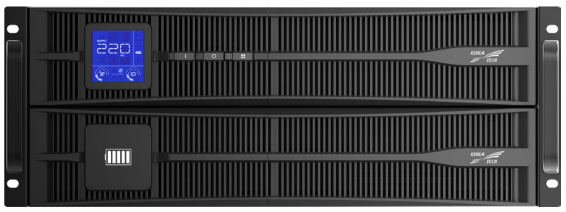
Kehua Data Co., Ltd.

KR11-RM Series UPS



- » 3 Level Technology
- » Rack and Tower Design
- » Output PF up to 1.0
- » AC/AC Efficiency up to 95.5%
- » Hot-Swappable Battery Design
- » Comformal Coating for All PCB
- » Support 8A Charging Current

Reliable and Flexible Uninterruptible Power Supply(UPS) for high uptime and high performance



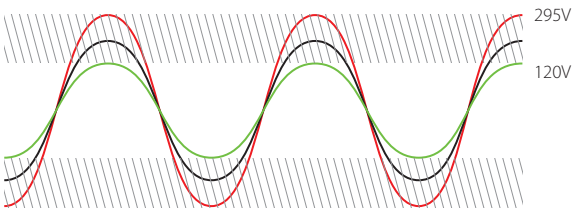
Kehua KR-RM 1-10k series ups is an online double conversion solution with high density and hot-swappable design which offer the high uptime, small footprint and operation flexibility.

Typical Applications:

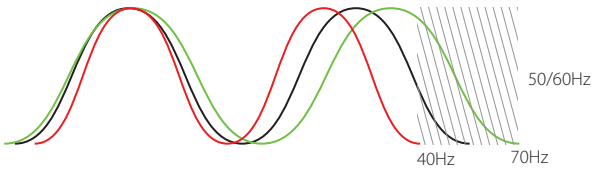
Telecom | Edge Application | Finance | Servers | Local Area Network | Security | Medical Equipment

High Reliability

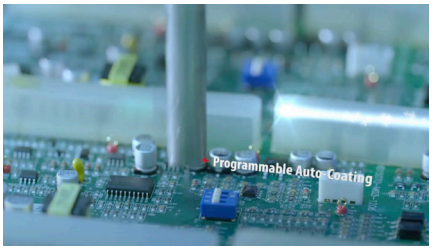
- The most advanced DSP control prevents single failure point and increase performance.
- **Wide input voltage range** and wide input frequency range 40-70Hz with high grid adaptability and prolong battery life.
- High-end key components, improve the system reliability
- **Standard conformal coating** to all PCB boards, protect electronics from environmental effection such as dust, salt spray and corrosion.
- Generator compatible ensure the clean power for extend power outage
- UPS power on **self diagnosis**,timely detection of hidden faults, ensuring UPS safety and avoiding unnecessary losses.
- EPO function as standard for immediataly remove power from connected load for emergency
- **Cold start** function which allow UPS start on battery when grid isn't available.



Wide Input Voltage



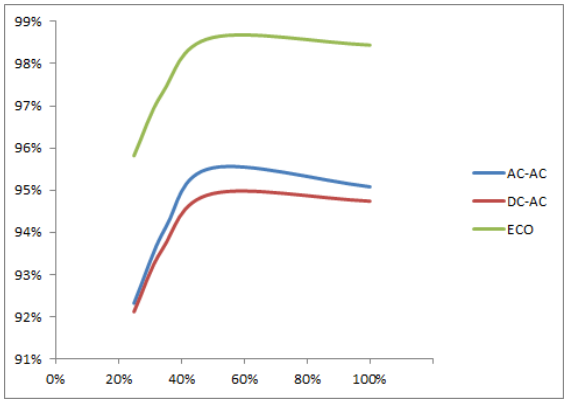
Wide Input Frequency



Conformal Coating

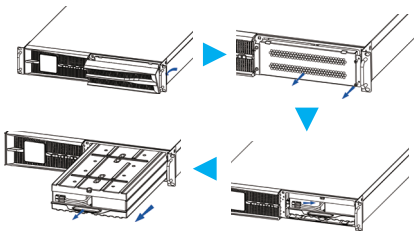
Green Power

- **3 level technology** for input power factor up to 0.996, Low THDi < **4%**, decrease pollution to city power
- AC/AC efficiency up to **95.5%** and ECO mode up to 98.5%, less TCO and more energy saving
- Output power factor up to **1.0**, more powerful to connect more critical loads

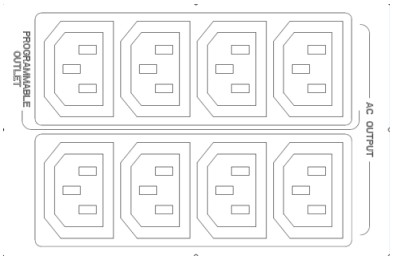


Flexible and User-friendly Design

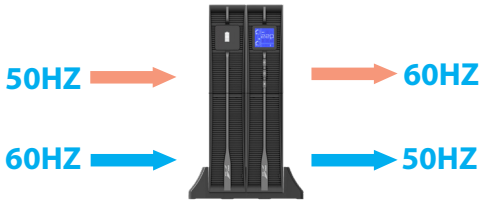
- Rack and tower compact design for internal battery 2U for 1-3kVA, 4U for 6-10kVA
- **Integrated solution** that combines electronics and batteries in one single unit.
- **hot-swappable battery** modules internal and external make sure minimum downtime of the device which can be changed during operation
- 1-8A settable charger for longer back up time*.
- **Programmable outlet** (1-3kVA) help to extend runtime for the most critical loads and smart disconnection of the less critical ones
- Frequency converter mode
- Batteries number settable via software (16/17/18/19/20 for 6-10kVA)
- Input frequency 50/60 Hz **self-adaption**, no need manual setting.
- **Multiple socket** for 1-3KVA, 6-10k Terminal block+2 IEC C13 output to meet global Multiple application.
- Blue LCD screen with **140° visual angle**, easy for user to check the data.
- LCD display easily shift through display setting to meet for vertical/horizontal installation.
- Fault code specific showing which easy for service and maintainence.



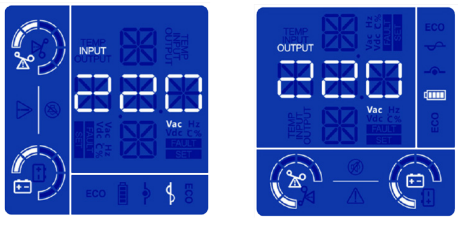
Hotswappble Battery Replacement



Programmable Outlet(1-3kVA)

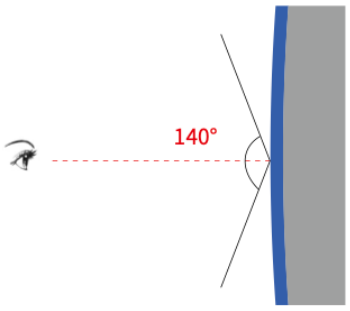


Frequency Converter Mode



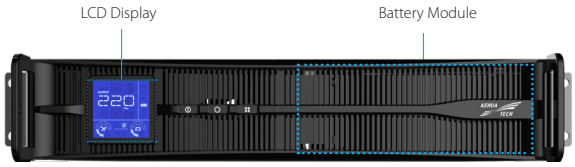
Horizontal Display

Vertical Display

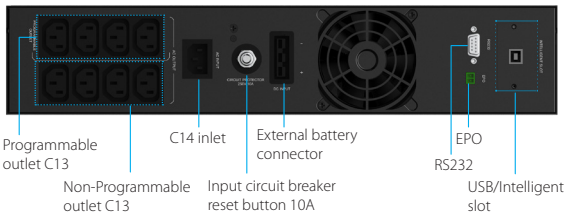


140° visual angle

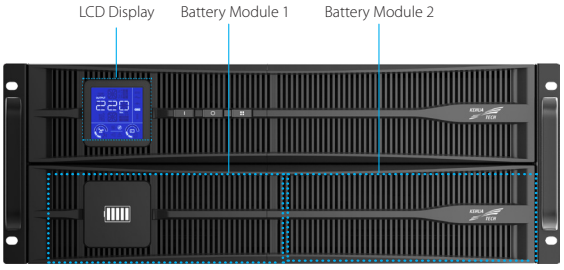
UPS Structure



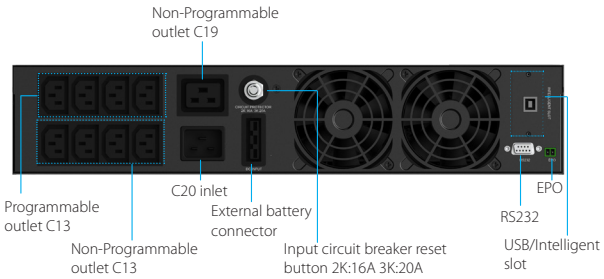
1-3kVA Front Panel



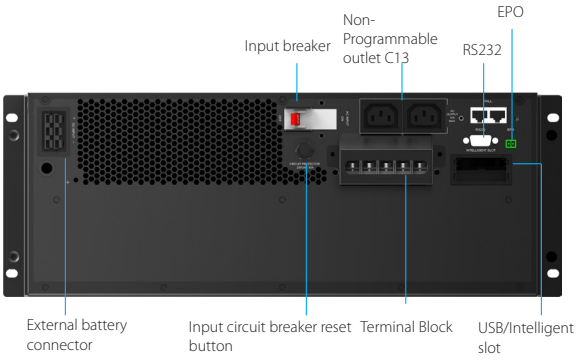
1kVA Rear Panel



6-10kVA Front Panel

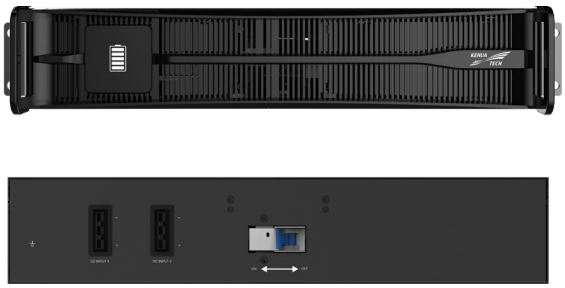


2-3kVA Rear Panel

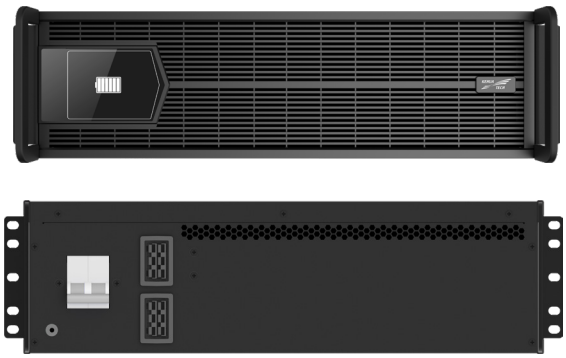


6-10kVA Rear Panel

EBM Structure



Hot-swappable battery module (1~3K)



External battery module (6~10K)

More Options

- 19 inch rail kit
- Tower Kit
- Internal SNMP Wiseway 502S
- External SNMP Wiseway 501S
- Dry contact Kit
- Protocol transfer kit
- 7A inbuild charger module for 1-3K
- Hot-swappable External Battery Module (1-3kVA)
- External Battery Module (6-10kVA)
- Intelligent Battery Monitoring System
- Battery Charge Temperature Compensation

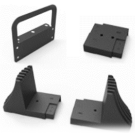
19 inch Rail Kit

Internal SNMP Kit

External SNMP Kit

Protocol transfer kit

Dry contact kit



Tower Kit

Battery charge temperature compensation

Technical Specifications

MODEL	KR1000-RM	KR2000-RM	KR3000-RM	KR6000-RM	KR1110S-RM
Input					
Voltage (Vac)	120-295			80-275	
Frequency (Hz)	40-70 (50/60Hz auto-sensing)				
Power Factor	≥0.99				
THDi	<4% (full linear load)				
Output					
Capacity(VA)	1000	2000	3000	6000	10000
AC/AC Efficiency Max.	92.5%	93.5%	93.8%	95.5%	95.5%
Power Factor	0.9/1.0				
Voltage (Vac)	208/220/230/240±1% (selectable on display panel)				
Frequency(Hz)	50/60±0.1 (battery mode)				
THDv	THD <2% (linear load), THD < 3% (nonlinear load)			THD <1% (linear load), THD < 4% (nonlinear load)	
Overload*	PF0.9:101~105% load long run,106~110% load 10 mins, 111~130% load 1 min, 131~150% load 1s, above 150% load 200 ms PF1.0:101~105% 1min,106~120% 5s, over 120% 200 ms			101~105% Long run, 106~130% load for 10mins, 131~150% 30s, over 150% 500ms.	
Transfer Time	0				
Current Crest Ratio	3:1				
Battery					
Voltage(Vdc)	36	48	72	192-240	
UPS Internal Battery(VRLA)	3×7Ah/12V	4×9Ah/12V	6×9Ah/12V	2*8×7Ah/12V	2*8×9Ah/12V
External Battery Module (EBM) Model	B2U-36-01-2B	B2U-48-02-2B	B2U-72-03-2B	B3U-192-20-2C	B3U-192-20-2C
EBM battery(VRLA)	2*3*7AH/12V	2*4*9AH/12V	2*6*9AH/12V	2*8*7AH/12V	2*8*9AH/12V
Charging Current (A).	Default 1A, (2~8A when adding charger module)			Default 1A, 1~8A settable	
Other					
Communication Interface	RS232+EPO (SNMP, USB,RS485+Dry contact are optional in slot)				
Output Outlet	8×IEC320 C13	8×IEC320 C13 + 1×IEC320 C19		Terminal + 2×IEC320 C13	
Display	Blue screen LCD (Software rotate)				
Display Details	AC input & output voltage, frequency, Load level, Battery level, Temperature; AC mode, Battery mode, Bypass mode, and Fault				
Alarm	Low battery, Abnormal AC input, UPS failure, etc.				
Protection	Low battery, overload, short-circuit and over temperature, etc.				
Noise (dB)	< 50			< 55	
Working Temperature*	-5~ 50°C (40~50°C auto derating)				
Relative Humidity	0 ~ 95%, No condensation				
Altitude(m)	1000, no derate.				
Regulatory Approvals	CE, IEC62040-1, IEC62040-2				
UPS (W×D×H)(mm)	438×420×87(2U)	438×570×87(2U)		438×660×174(4U)	
UPS Weight (kg)	14	20	26	55.6	64
External Battery Module (W×D×H)(mm)	438×420×87(2U)	438×570×87 (2U)	438×570×87 (2U)	438×500×130 (3U)(16*7/9AH)	
Battery Cabinet Weight (kg)	20	29	40	45	48

• Specification is subject to change without prior notice.
* Condition comply

KEHUA TECH

Reliable • Flexible • Responsible

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