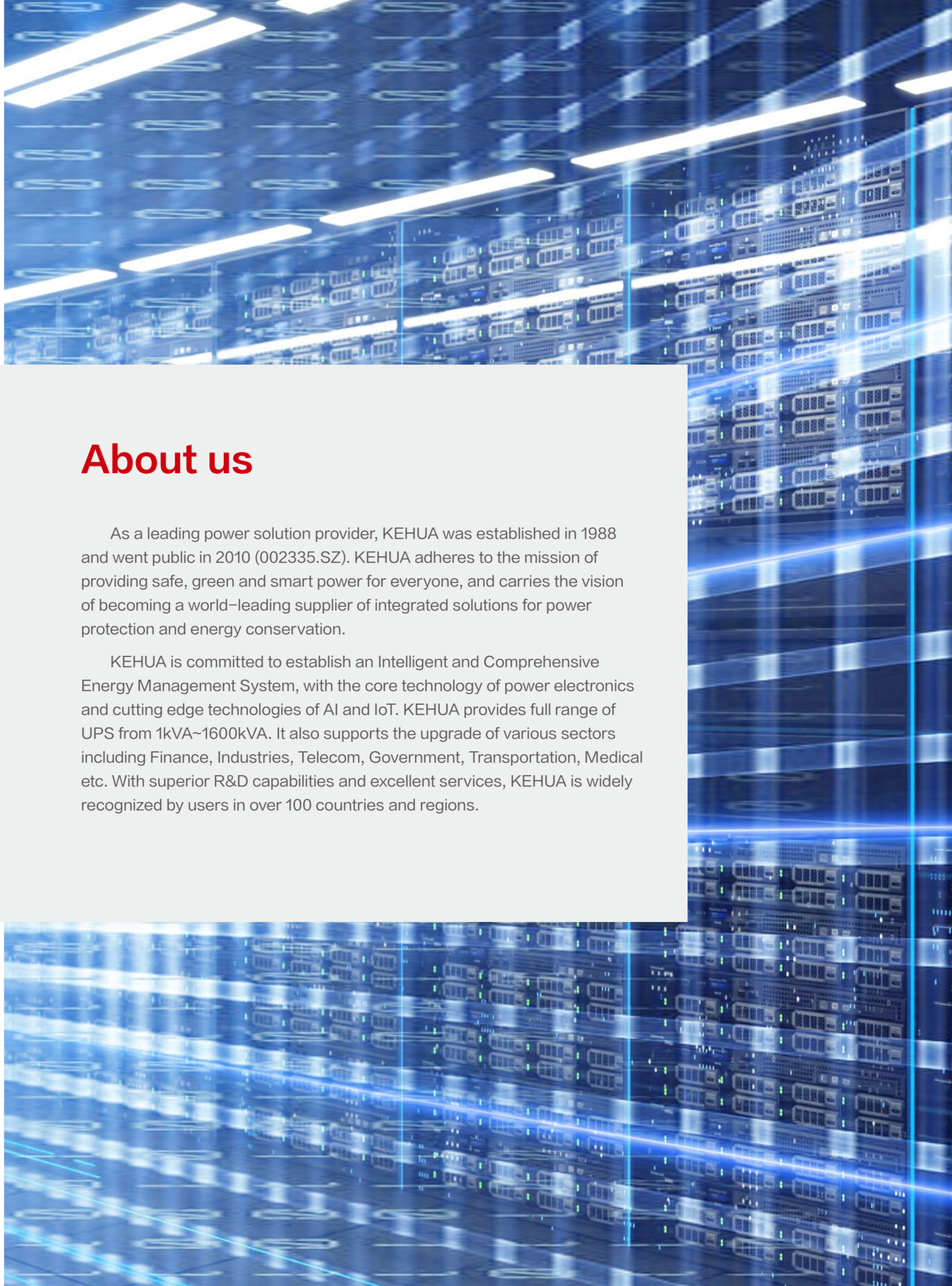
KEHUA TECH

stock code
002335.SZ
kehua Data Co.,Ltd

UPS Catalog

Low Voltage Series



Global UPS

Competitive Strategy Innovation and Leadership Award (Frost & Sullivan)

No.4

World largest supplier of modular UPS (Omdia 2022)

No.1

Chinese UPS market in the field of transportation (CCID 2022)

No.1

UPS supplier in China (CCW Research 2021)

About us

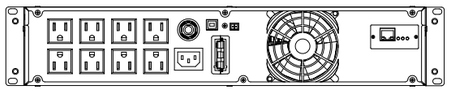
As a leading power solution provider, KEHUA was established in 1988 and went public in 2010 (002335.SZ). KEHUA adheres to the mission of providing safe, green and smart power for everyone, and carries the vision of becoming a world-leading supplier of integrated solutions for power protection and energy conservation.

KEHUA is committed to establish an Intelligent and Comprehensive Energy Management System, with the core technology of power electronics and cutting edge technologies of AI and IoT. KEHUA provides full range of UPS from 1kVA~1600kVA. It also supports the upgrade of various sectors including Finance, Industries, Telecom, Government, Transportation, Medical etc. With superior R&D capabilities and excellent services, KEHUA is widely recognized by users in over 100 countries and regions.

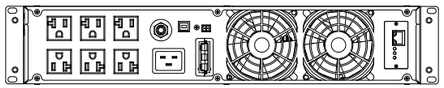
Content

KRA-RM Li Series Lithium Battery UPS

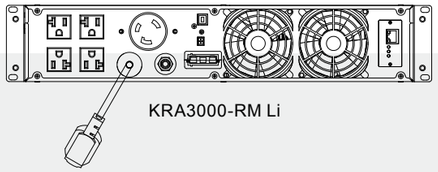
(1-3kVA)



KRA1000-RM Li



KRA2000-RM Li



KRA3000-RM Li

Built-in Lithium-ion Battery

- Super-long backup time - 11 minutes backup time by internal battery
- Wide temperature range - tolerant for up to 60°C with no harm to the battery
- Internal lithium-ion battery long service life - up to 8 years of service life
- More circles for charge and recharge - up to than 1000 times
- Environment-friendly - lithium-ion battery

Green Power

- AC/AC efficiency up to 93.0%, less operation cost and more energy saving

Compact Dimension

- Space-saving, easy for installation

Rotatable LCD display

- The LCD display easily rotate for horizontal and vertical application

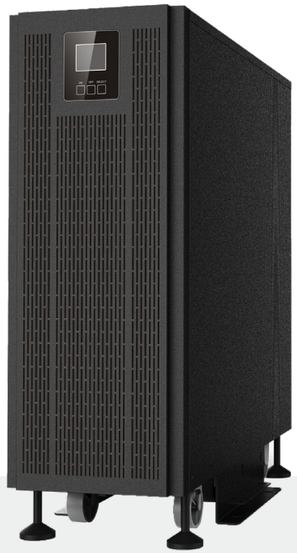
Technical Specification

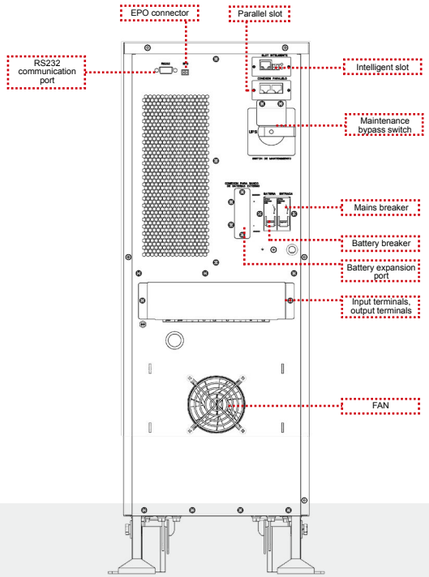
MODEL	KR1000A-RM Li	KR2000A-RM Li	KR2200A-RM Li	KR3000A-RM Li
INPUT				
Voltage (Vac)	60-148			
Frequency (Hz)	50/60±10% (50/60Hz auto-sensing)			
Power Factor	≥0.99			
THDi	<5% (linear load)			
OUTPUT				
Capacity (VA)	1000	2000	2200	3000
AC/AC Efficiency	91.7%	92.5%	92.6%	92.5%
Power Factor	0.9			
Voltage (Vac)	110/120±1%			
Frequency (Hz)	50/60±0.1 (battery mode)			
THDv	<3% (linear load)			
Transfer Time (ms)	0			
ECO Mode	Yes			
Overload	101%~115% load for 1 min, 116%~133% load for 1s, above 134% load for 200ms			
LITHIUM-ION BATTERY				
Voltage (Vdc)	24	48	72	72
Backup Time (mins)	11	11	22	11
Charging Current (A) Max.	4			
GENERAL				
Communication Interface	USB, SNMP (slot) (RS232+dry contact is optional in slot)			
Output Outlet	(8) 5-15R	(6) 5-20R	(6) 5-20R	(4) 5-20R + (1) L5-30R
Display	LCD displays the running status of UPS			
Alarm	Battery low-voltage, mains abnormal, UPS fault, output overload			
Protection	Battery under-voltage protection, overload protection, short-circuit protection, over-temperature protection, input over-voltage protection			
Noise (dB)	< 55			
Working Temperature	The operating temperature is 0℃~60°C (Best operating temperature is 0~40℃, output power derated from 40°C~60°C)			
Relative Humidity	0 ~ 95%, no condensation			
Dimension (W×D×H) (mm)	438×420×87	438×570×87	438×615×87	438×570×87
Weight (kg)	8.9	13.6	19.1	17.1

- Specification is subject to change without prior notice.

KR11-T Series

(6-10kVA)





High Performance

- Input power factor up to 0.996, low THDi (< 5%), decrease the pollution to utility power
- AC/AC efficiency up to 93.5%, energy saving and low CO_2 emission
- Wide input voltage range allows the UPS to work in harsh electrical environments
- Visualized LCD display providing comprehensive information including working status, operation data, et

Excellent Flexibility

- Output voltage is selectable via LCD
- Batteries total quantity settable (16/17/18/19/20 for 6-10kVA)
- Maintenance bypass
- Battery disconnection alarm (optional)
- SNMP, RS485+dry contact, USB, Protocol transfer kit(optional)
- Charging voltage temperature compensation (optional)
- Parallel Kit (optional)

Outstanding Profitability

- Minimum 0.16m^2 footprint, more units are available for delivery and installation
- Output voltage 120/208/220/230/240Vac, suitable different application
- Optional external battery pack for the standard model to improve system availability
- Full galvanic isolation for safer operation and stronger load adaptability

Technical Specification

MODEL	MY10A	MY15A	MY20A	MY30A
INPUT				
Voltage (Vac)	156~260 (L-L)			
Frequency (Hz)	40-70			
Power Factor	≥0.99			
THDi	<3% (linear load)			
Dual Main Input	Yes			
OUTPUT				
Capacity (kW)	10	15	20	30
AC/AC Efficiency (Max.)	94%			
Power Factor	1.0			
Voltage (Vac)	190/200/208/220±1% (L-L)			
Frequency (Hz)	50/60±0.1 (battery mode)			
THDv	<1% (linear load), <3% (non-linear load)			
Transfer Time	0			
Overload	<105% continues, 105%~110% 60mins, 110%~130% load for 10 min, 130%~150% load for 1 min, >150% load: change to bypass immediately			
ECO Mode	Yes			
BATTERY				
Voltage (Vdc)	±120 (±96~±120 adjustable)	±96 (±96~±120 adjustable)	±120 (±96~±120 adjustable)	±120 (±96~±120 adjustable)
Internal Battery	20×9AH/12V	32×9AH/12V	40×9AH/12V	64×9AH/12V
Battery Number	1/2/3 battery pack (1 pack=16~20 pcs optional for different backup time, max. internal space 60 pcs)			1/2/3/4 battery pack max 80pcs
Charging Current (A)	1-10 settable	1-20 settable		
GENERAL				
Communication Interface	RS485+EPO, 5 output dry-contact (13 choose 5), 1 input dry-contact (5 choose 1) (RS232, SNMP are optional in slot)			
Display	Touch screen+LED/LCD			
Alarm	Low battery, abnormal AC input, UPS failure, etc.			
Protection	Low battery, overload, short-circuit and over temperature, etc.			
Noise (dB)	<55			<65
Working Temperature (°C)	-5~40			
Relative Humidity	0 ~ 95%, no condensation			
Dimension (W×D×H)(mm)	280×835×1100			320×880×1250
Weight (kg)*	93	109	109	139

- Specification is subject to change without prior notice.

* Capacity will derate when battery voltage between ±144~±180

KRA-RM Series

(10-20kVA)

Model: KRA-RM 10-20kVA

Green Power

- Low THDi: <5%
- PF=1.0
- High AC/AC efficiency up to 94.5%

Excellent Flexibility

- 3U height tower and rack compatible design
- Common battery bank
- LCD gravity auto-rotate
- Adjustable battery pcs and charging current

Advanced Technology

- Dual DSP control technology for top performance
- Anti-corrosion resistant coating for all PCB boards
- Intelligent fan speed control reduces the noise and prolongs fan service life
- Anti-corrosion resistant coating in all PCB boards
- ECO and EPO

More Options

- External UPS input and output distribution box
- Dry contact kits and SNMP
- 19-inch rail kits

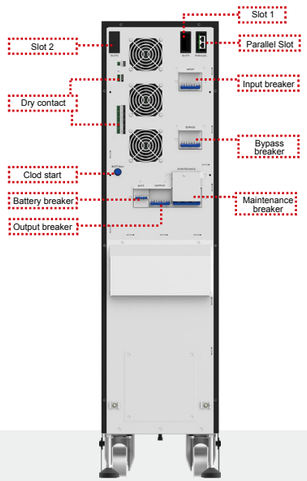
Technical Specification

MODEL		KR10A-RM	KR15A-RM	KR20A-RM
INPUT				
Voltage (Vac)[1]		138-485 (L-L)		
Frequency (Hz)		40-70		
Power Factor		≥0.99		
THDi		<3%		
OUTPUT				
Capacity (kVA)		10	15	20
AC/AC Efficiency (Max.)		94.5%		
Power Factor		1.0		
Voltage (Vac)[2]		190/200/208/220±1% (L-L)		
Frequency (Hz)		50/60±0.1 (battery mode)		
THDv		THD <1% (linear load), THD < 3% (nonlinear load)		
Transfer Time (ms)		0		
Overload		105%~110% 60min, 110%~130% 10min,130%~150% 1min, above 150% load: change to bypass immediately		
ECO Mode		Yes		
BATTERY				
Voltage (Vdc)		±120(±96~±120 adjustable)		
Charging Current (A)		1-10 settable		1-20 settable
GENERAL				
Communication Interface		RS485+EPO (RS232+Dry contact, SNMP are optional in slot)		
Display		LCD		
Alarm		Low battery, abnormal AC input, UPS failure, etc.		
Protection		Low battery, overload, short-circuit and over temperature, etc.		
Noise (dB)		< 55		
Working Temperature (°C)		-5~40		
Relative Humidity		0 ~ 95%, no condensation		
Dimension (W×D×H)(mm)	UPS	438×500×130(3U)	438×680×130(3U)	
	Distribution Box	438×500×130(3U)	438×680×130(3U)	
	Batt. Pack	438×500×130(3U)	438×680×130(3U)	
Weight (kg)	UPS	20	34	
	Distribution Box	8	14	

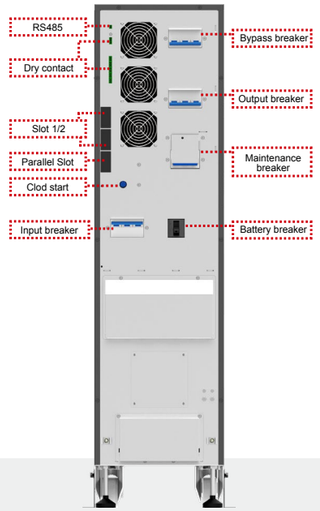
- Specification is subject to change without prior notice.
- 80-280 (L-N) for single phase input;
- 220/230/240 (L-N) for single phase output.

MYA Series

(10-30kW)



MY10A



MY30A

Green Power

- AC/AC efficiency up to 94%, ECO mode up to 98%, less TCO and more energy saving
- PF=1.0, kVA=kW, more powerful to connect more critical loads
- 3 level IGBT technology for higher efficiency and minimized interference to grid
- Self-load test function

Flexible Design

- Dual input design for mains and bypass
- Built-in battery and flexible battery configuration
- 5 min back-up time
- Easy onsite parallel slot modification
- Frequency converter function
- Cold start function
- 2 optional slot for SNMP and dry contact
- Dry contact signal selectable, input signal 13 choose 5, output 5 choose 1
- Internal transformer or internal battery

Advanced Technology

- Dual DSP control for top performance
- Intelligent fan speed control reduce noise and prolongs fan life
- Anti-corrosion resistant coating for all PCB boards
- Full protection with input, output, bypass, maintenance
- bypass and battery breaker
- ECO mode and EPO function

Technical Specification

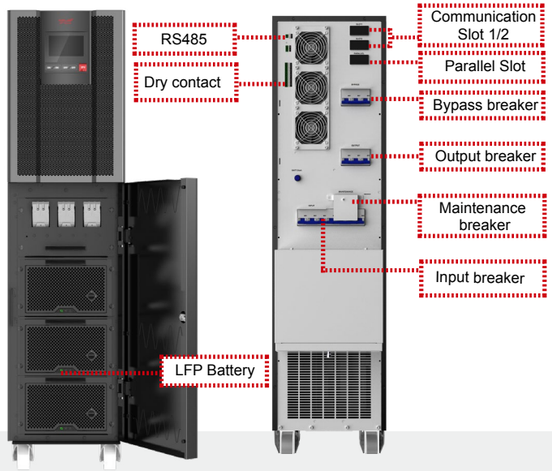
MODEL	MY10A	MY15A	MY20A	MY30A
INPUT				
Voltage (Vac)	156~260 (L-L)			
Frequency (Hz)	40-70			
Power Factor	≥0.99			
THDi	<3% (linear load)			
Dual Main Input	Yes			
OUTPUT				
Capacity (kW)	10	15	20	30
AC/AC Efficiency (Max.)	94%			
Power Factor	1.0			
Voltage (Vac)	190/200/208/220±1% (L-L)			
Frequency (Hz)	50/60±0.1 (battery mode)			
THDv	<1% (linear load), <3% (non-linear load)			
Transfer Time	0			
Overload	<105% continues, 105%~110% 60mins, 110%~130% load for 10 min, 130%~150% load for 1 min, >150% load: change to bypass immediately			
ECO Mode	Yes			
BATTERY				
Voltage (Vdc)	±120 (±96~±120 adjustable)	±96 (±96~±120 adjustable)	±120 (±96~±120 adjustable)	±120 (±96~±120 adjustable)
Internal Battery	20×9AH/12V	32×9AH/12V	40×9AH/12V	80×9AH/12V
Battery Number	1/2/3 battery pack (1 pack=16~20 pcs optional for different backup time, max 60 pcs)			1/2/3/4 battery pack max 80pcs
Charging Current (A)	1-10 settable	1-20 settable		
OTHER				
Communication Interface	RS485+EPO, 5 output dry-contact (13 choose 5), 1 input dry-contact (5 choose 1) (RS232, SNMP are optional in slot)			
Display	Touch screen+LED/LCD			
Alarm	Low battery, abnormal AC input, UPS failure, etc.			
Protection	Low battery, overload, short-circuit and over temperature, etc.			
Noise (dB)	<55			<65
Working Temperature (°C)	-5~40			
Relative Humidity	0 ~ 95%, no condensation			
Dimension (W×D×H)(mm)	280×835×1100			320x880x1250
Weight (kg)*	93	109	109	139

- Specification is subject to change without prior notice.

* Capacity will derate when battery voltage between ±144~±180

Eon-Li Series

(10-30kW)



Safe

- Four breaker design
- Overload at PF=1.0@40°C, no derating
- Safe short circuit protection, 10-200ms settable
- Back-feed protection function

Green Power

- Low THDi <3%
- AC/AC efficiency up to 94%, ECO efficiency up to 99%

Intelligent

- Self-load test function
- Battery management, intelligent charging
- Smart de-dust function
- Bus capacitor life visual

Convenient

- Battery hot swappable design
- Cold start button
- Built-in lithium battery

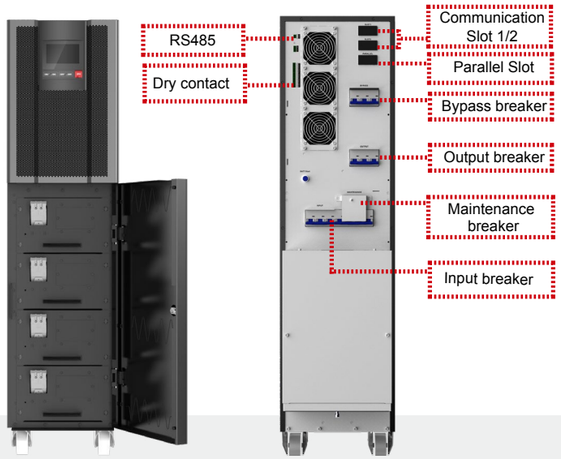
Technical Specification

MODEL	Eon10Li	Eon20Li	Eon30Li
INPUT			
Input Voltage (Vac)	208/220 (3W+N+G)		
Input Voltage Range (Vac)	120V-156V linear derating, 156V-268V at full load		
Frequency (Hz)	40-70		
Power Factor	≥0.99		
THDi	<3%		
Dual Mains Input	Yes (default single mains input)		
OUTPUT			
Capacity (kW)	10	20	30
AC/AC Efficiency (Max.)	94%		
Power Factor	1.0		
Voltage (Vac)	190/200/208/220±1% (L-L) ±1% (default is 208V)		
Frequency (Hz)	50/60±0.1 (battery mode)		
THDv	THD <1% (linear load), THD <4% (nonlinear load)		
Overload	<105% continues, 105%~110% 60mins, 110%~130% load for 10 min, 130%~155% load for 1 min, 155%~200% load for 200ms, >200% load: change to bypass immediately		
ECO Mode	Yes		
ECO Efficiency	99%		
LITHIUM BATTERY BATTERY			
Battery Cell Capacity (Ah)	50		
Battery Pack Voltage (Vdc)	240		
Internal LFP Module Quantity	1 module (1-3 selectable)	2 module (2-3 selectable)	3 module
Charging Current (A)	2~40 settable (default is 20)		
Weight	37kg (81lb)		
COMMUNICATION			
Communication Interface	RS485+EPO+Dry contact (1 input,5 output)+2 Slots+SNMP (optional)		
Display	4.3 Inches Touch Screen		
ENVIRONMENTAL			
Noise (dB)	<63		<68
Working Temperature (°C)	-5~50(40~50 derating)		
Relative Humidity	0 ~ 95%, no condensation		
DIMENSION AND WEIGHT			
Dimension (W×D×H)(mm)	378×993×1250mm (14.9*39.1*49.2in)		
Package Dimension (HxWxD)	456x1110x1390mm (18*55*438in)		
Weight (kg) (Without battery)	94kg(207lb)	103kg(227lb)	110kg(2421b)
Weight (kg)*	135kg (298lb)	177kg (390lb)	220kg (485lb)

- Specification is subject to change without prior notice.

Eon Series

(10-30kW)



Safe

- Four breaker design
- Overload at PF=1.0@40°C, no derating
- Safe short circuit protection, 10-200ms settable
- Back-feed protection function

Green Power

- Low THDi <3%
- AC/AC efficiency up to 94%, ECO efficiency up to 99%

Intelligent

- Self-load test function
- Battery management, intelligent charging
- Smart de-dust function
- Bus capacitor life visual

Convenient

- Battery hot swappable design
- Cold start button
- Built-in lithium battery

Technical Specification

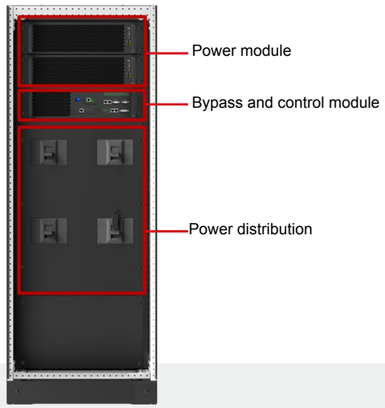
MODEL	Eon10	Eon20	Eon30
INPUT			
Input Voltage (Vac)	208/220(3W+N+G)		
Frequency (Hz)	40-70		
Power Factor	≥0.99		
Input Voltage Range	120V-156V linear derating, 156V-268V at full load		
THDi	<3%		
Dual Mains Input	Yes (default single mains input)		
OUTPUT			
Capacity (kW)	10	20	30
Output performance claasification(according to IEC 60240-3	VFI-SS-111		
AC/AC Efficiency (Max.)	94%		
Power Factor	1.0		
Voltage (Vac)	190/200/208/220±1%(L-L) ±1% (default is 208)		
Frequency (Hz)	50/60±0.1 (battery mode)		
THDv	THD <1% (linear load), THD <4% (nonlinear load)		
Overload	<<105% continues, 105%~110% 60mins, 110%~130% load for 10 min, 130%~150% load for 1 min, 150%~200% load for 200ms		
ECO Mode	Yes		
ECO Efficiency	99%		
BATTERY VRLA			
Battery Cell Capacity(Ah)	9		
Battery Voltage (Vdc)	±120 (±96~±120 , ±48 cells~±60 cells, 2V/cell)		
Internal Battery String Quantity	Standard 2 strings (1-4 selectable)	Standard 3 strings (1-4 selectable)	Standard 4 strings (1-4 selectable)
Charging Current (A)	1-10 settable		1-20 settable
COMMUNICATION			
Communication Interface	RS485+EPO+Dry contact(1 input, 5 output)+2 Slot+SNMP(optional)		
Display	4.3 Inches Touch Screen		
ENVIRONMENTAL			
Noise (dB)	<60		<65
Working Temperature (°C)	-5~50(40~50 derating)		
Relative Humidity	0 ~ 95%, no condensation		
DIMENSION AND WEIGHT			
Dimension (W×D×H)(mm)	378×993×1250mm(14.9*39.1*49.2in)		
Package dimension(W×D×H)()	456x1110x1390mm(18x55x438in)		
Weight (kg)*	211kg(465lb)	276kg(609lb)	340kg(750lb)

- Specification is subject to change without prior notice.

* Without battery

MYA Series

(40-120kW)



Green Power

- AC/AC efficiency up to 94.5% and 30% load up to 94% efficiency reduces heat dissipation and limits power consumption costs
- High input power factor up to 0.99 and low Input THDi: < 3.0% at full load, much less grid pollution and costs
- Intelligent sleep mode which UPS sleep in random keep maximum efficiency and energy saving

Flexible Design

- Colorful 7" touch screen with LED Indicators.
- Main unit display allows to check the information of each UPS status during parallel mode.
- Flexible Network Management: SNMP
- Expanded dry contact kit (4 in 4 out)
- BMS kit for lithium battery communication

Advanced Technology

- Latest generation IGBT and three level technology
- Dual DSP control for top performance
- Intelligent fan control and redundant design: 15% load can be driven when 2 fans fail and 40% load when 1 fan fails
- Anti-corrosion resistant coating for all PCB boards
- Separate internal air channel which hot air drives directly towards heat sink without distressing the PCB's and other internal sensitive components

Technical Specification

MODEL	MY40A	MY50A	MY60A	MY80A	MY100A	MY120A
INPUT						
Voltage (Vac)	70-155 (L-N) / 120-268 (L-L)					
Frequency (Hz)	40~70 (linear load)					
Power Factor	≥0.99					
Phase	3φ4W+PE					
THDi at full linear load	<3%					
BYPASS						
Bypass Voltage (Vac)	208±20%					
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.					
OUTPUT						
Capacity (kW)	40	50	60	80	100	120
Power Factor	1 (0.5 leading to 0.5 lagging)					
Voltage (Vac)	190/200/208/220±1%					
Frequency (Hz)	50/60±0.1% (Battery mode)					
Phase	3φ4W+PE					
Three Phase Difference	≤1%					
THDv	<1% (at linear load), <4% (at non-linear load)					
Transfer Time (ms)	0					
AC-AC Efficiency	up to 94%					
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)	±144 (±120~±144 adjustable)					
Battery Type	External					
Charging Current (A) MAX	30			60		
GENERAL						
Communication Interface	RS485, MODBUS, dry contact (RS232, BMS, SNMP, expend dry contact card are optional in slot)					
Display	7" touch screen+LED					
Alarm	AC input abnormal, low battery, overload, failure					
Protection	Output short-circuit, overload, over-temperature, battery low voltage, output over/low voltage					
Noise (dB)	<68					
Altitude(m)	0-2000 no derate					
IP Grade	IP20					
Working Temperature (°C)	0 ~ 40 no derate, 40~50 auto derate.					
Relative Humidity	0 ~ 95%, no condensation					
Dimension (W×D×H)(mm)	600×1000×1800					
Weight (kg)	161			260		

- Specification is subject to change without prior notice.

FR-UK33A Series

(10-200kVA)

Advanced Technology

- Online double conversion
- Fully DSP control
- No-master-slave N+1 parallel technology
- Advanced battery charging management
- DC startup function
- Advanced no-master-slave parallel technology (optional)

High Reliability

- Wide input voltage range
- IGBT inverter and output isolation transformer
- Intelligent fan speed control
- Allow 100% three phase unbalance load
- ECO mode and EPO function
- Intelligent fans control
- Bypass isolation transformer (optional)

Excellent Flexibility

- Intelligent RS232/RS485 communication port
- Intelligent battery monitor system - MMBM (optional)

Technical Specification

MODEL	FR-UK 3310A/FR-UK3310AS	FR-UK 3320A/FR-UK3320AS	FR-UK 3330A/FR-UK3330AS	FR-UK 3340A	FR-UK 3350A	FR-UK 3360A	FR-UK 3380A	FR-UK 33100A	FR-UK 33120A	FR-UK 33160A	FR-UK 33200A
INPUT											
Voltage (Vac)	208/220 ±20% (±25% optional)										
Rectifier Frequency (Hz)	40~70										
SYNC Frequency Tracking (Hz)	50/60±10% (±5% optional)										
Phase	3φ4W+PE										
OUTPUT											
Capacity (kVA)	10	20	30	40	50	60	80	100	120	160	200
Power Factor	0.8 (0.9 optional)										
Phase	3φ4W+PE										
Voltage (Vac)	L-N: 120/127±1%, L-L: 208/220±1%										
Frequency (Hz)	50/60±0.5% (battery mode)										
Waveform	Pure sine wave, THD≤3% (linear load)										
3 Phases 100% Load Unbalance Voltage Stability	≤2%, allow 100% unbalance										
Overload	105% load for 60mins, 125% load for 10mins, 150% load for 1 min										
BATTERY											
Voltage (Vdc)	192			348 (360 settable)							
Battery Type	External /Max. 64pcs 7AH 12V			External							
Charging Current (A) Max.	10~40 settable										
Battery Self-testing	Automatically alarm and estimate battery status in battery abnormal status										
GENERAL											
Maintenance Bypass	Yes										
Communication Interface	MODBUS/RS485 and dry contact (RS232 and SNMP adapter are optional)										
Display	Touch screen display indicates frequency, voltage, load, battery voltage, etc. LED indicates running status										
Alarm	Overload, abnormal AC input, low battery, UPS failure										
Protection	Low battery, overload, over temperature, short circuit, output over voltage, output low voltage										
Noise (dB)	<65										
Working Temperature (°C)	0 ~ 40										
Relative Humidity	0 ~ 95%, no condensation										
Dimension (W×D×H)(mm)	500×800×1180 /500×800×1600			500×800×1600			1400×1000×1850				1600×1000 ×1850
Weight (kg)	300/500	325/530	340/540	590	620	670	970	1000	1200	1450	1700

- Specification is subject to change without prior notice.
- If the higher charging current is adjusted, the UPS capacity shall be derated.

Reliable • Flexible • Responsible

Kehua Tech

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Version NO.: 20230526

KEHUA TECH

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UPS Catalog

Sustainable Value Creator

Global UPS

Competitive Strategy Innovation and Leadership Award (Frost & Sullivan)

No.4

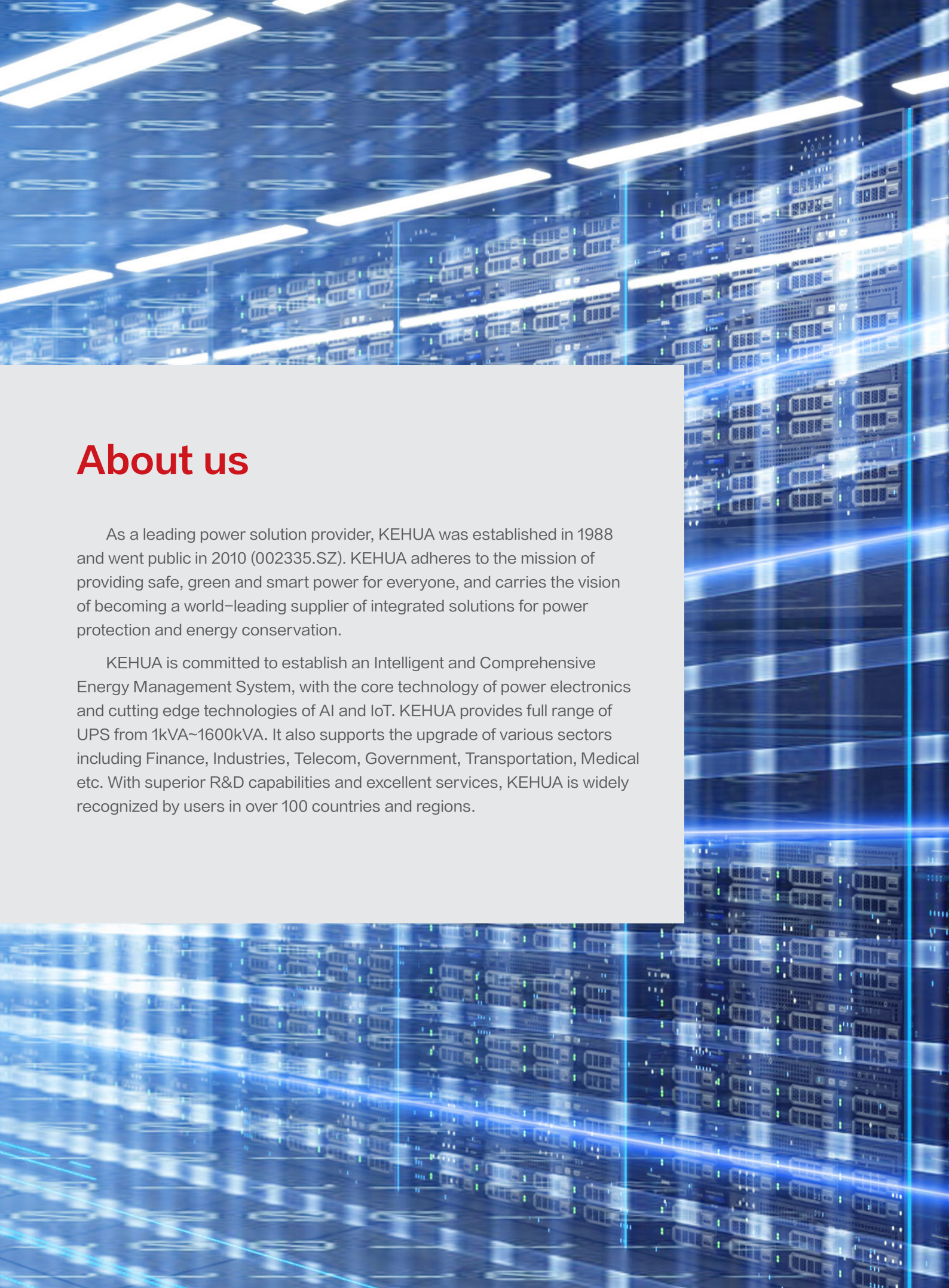
World largest supplier of modular UPS (Omdia 2022)

No.1

Chinese UPS market in the field of transportation (CCID 2022)

No.1

UPS supplier in China (CCW Research 2021)



About us

As a leading power solution provider, KEHUA was established in 1988 and went public in 2010 (002335.SZ). KEHUA adheres to the mission of providing safe, green and smart power for everyone, and carries the vision of becoming a world-leading supplier of integrated solutions for power protection and energy conservation.

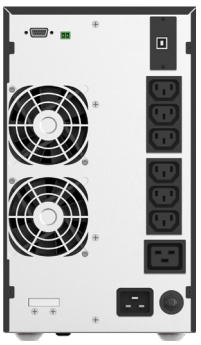
KEHUA is committed to establish an Intelligent and Comprehensive Energy Management System, with the core technology of power electronics and cutting edge technologies of AI and IoT. KEHUA provides full range of UPS from 1kVA~1600kVA. It also supports the upgrade of various sectors including Finance, Industries, Telecom, Government, Transportation, Medical etc. With superior R&D capabilities and excellent services, KEHUA is widely recognized by users in over 100 countries and regions.

Content

KR11 Plus Series

(1-10kVA)

KR1000+



KR2000+/KR3000+

KR6000+/KR1110S+

Green Power

- Input power factor up to 0.996, low THDi (< 5%), decrease pollution to city power
- AC/AC efficiency up to 95%, energy saving and low carbon emission
- Compliance with RoHS standard, innocuous and environmental friendly
- Design in accordance to International EMC and Safety standard

Excellent Flexibility

- Output voltage and ECO mode are selectable via LCD
- 1~8A charging current settable via software (6-10KVA)
- Batteries quantity are settable (16/17/18/19/20 for 6-10kVA)
- Maintenance bypass for 6-10kVA (option)
- Battery disconnection alarm (option)
- SNMP or RS485+dry contact (option)
- Charging voltage temperature compensation (option)

Outstanding Profitability

- Minimium 0.05m^2 footprint, save delivery cost and easy for installation

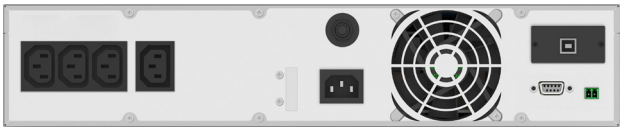
Technical Specification

MODEL	KR1000+/ KR1000L+	KR2000+/ KR2000L+	KR3000+/ KR3000L+	KR6000+/ KR6000L+	KR1110S+/ KR1110+
INPUT					
Voltage (Vac)	120~295			80~275	
Frequency (Hz)	50/60± 10% (50/60Hz auto-sensing)				
Power Factor	≥0.99				
THDi	<5% (non-linear)				
OUTPUT					
Capacity (VA)	1000	2000	3000	6000	10000
Max. AC/AC Efficiency	92%	93%	94%	95%	95%
Power Factor	0.9 (1.0 optional)				
Voltage (Vac)	208/220/230/240±1% (selectable on display panel)				
Frequency (Hz)	50/60±0.2% (battery mode)				
THDv	THD < 2% (linear load); THD < 5% (nonlinear load)			THD < 1% (linear load); THD < 4% (nonlinear load)	
Transfer Time (ms)	0				
BATTERY					
Voltage (Standard)(Vdc)	24	48	72	192	192
Battery Type (Standard)	2×9Ah 12V	4×9Ah 12V	6×9Ah 12V	16×7Ah 12V	16×9Ah 12V
Voltage (Long backup)(Vdc)	36	72	96	192~240	192~240
Battery Type (Long backup)	External			External (16~20 units settable)	
Charger Current (A) Max.	1 (Standard)/4 (Long backup)			1~8 (adjustable)	
GENERAL					
Communication Interface	RS232, EPO, USB (slot) (SNMP, RS485+dry contact are optional in slot)				
LCD Display	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 (°C)	-5~40				
Relative Humidity	0 ~ 95%, no condensation				
Dimension (W×D×H) mm	145×360×225	190×400×330		230×502×553/190×422×337	
Weight (Standard)(kg)	9.2 or 11.6	17.7 or 22.4	22.9 or 27.6	54.5	56.2
Weight (Long backup)(kg)	4.5	8.5	9.2	10.9	12.5

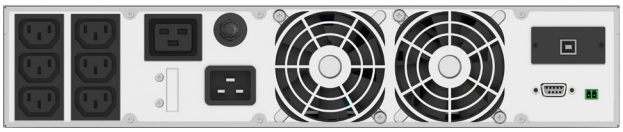
- Specification is subject to change without prior notice.

KR11-J Plus Series

(1-10kVA)



KR1000-J+



KR2000-J+/KR3000-J+

KR6000-J+/KR1110S-J+

Green Power

- AC/AC efficiency up to 95.5%, less operation cost and more energy saving
- Output power factor up to 1.0 (optional), more powerful to connect more critical loads
- Input PF >0.996 and THDi <5%, less power pollution and lower TCO

Flexible Rear Panel Configuration

- Dry contact kits and SNMP are optional
- Selectable output sockets
- External battery pack port available

User-friendly and Easy-shift LCD Display

- Intelligent RS232+USB+EPO
- ECO function
- Selectable output sockets
- Rack and tower convertible
- Suitable for vertical/horizontal installation
- External battery bank, rack kits (optional)+

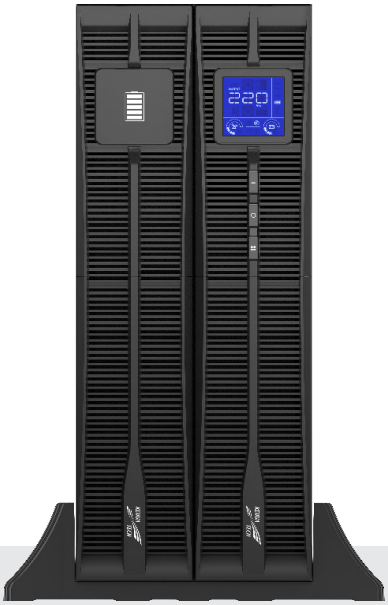
Technical Specification

MODEL	KR1000-J+/ KR1000L-J+	KR2000-J+/ KR2000L-J+	KR3000-J+/ KR3000L-J+	KR6000-J+/ KR6000L-J+	KR1110S-J+/ KR1110-J+
INPUT					
Voltage (Vac)	120-295			80-275	
Frequency (Hz)	50/60± 10% (50/60Hz auto-sensing)				
Power Factor	≥0.99				
THDi	<5% (non-linear)				
OUTPUT					
Capacity (VA)	1000	2000	3000	6000	10000
Max. AC/AC Efficiency	92%	92.5%	93.3%	95.5%	95.5%
Power Factor	0.9 (1.0 optional)				
Voltage (Vac)	208/220/230/240±1% (settable on display panel)				
Frequency (Hz)	50/60±0.2% (battery mode)				
THDv	THD <2% (linear load), THD < 5% (non-linear load)			THD <1% (linear load), THD < 4% (non-linear load)	
Transfer Time (ms)	0				
BATTERY					
Voltage (Vdc)	24/36	48/72	72/96	192~240	192~240
Battery Type	2×9AH 12V/External	4×9AH 12V/External	6×9AH 12V/External	16×9AH 12V/External (16~20 units settable)	
Charger Current (A) Max.	1/4	1/4	1/4	1~8 adjustable	1~8 adjustable
GENERAL					
Communication Interface	RS232, EPO, USB (slot) (SNMP, RS485+dry contact are optional in slot)				
LCD Display	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 (°C)	-5~40				
Relative Humidity	0~95%, no condensation				
Dimension (W×D×H) mm (standard)	438×413×2U	438×413×2U (UPS)+ 438×413×2U (Batt. pack)		438×500×2U (UPS)+ 438×500×3U (Batt. pack)	
Dimension (W×D×H) mm (long backup)	438×413×2U	438×413×2U		438×500×2U	
Weight (kg)	11/5.8	7.2+13/8	7.2+17.5/8	10.6+45/10.6	12.2+45/12.2

- Specification is subject to change without prior notice.

KR-RM Rack/Tower Series

(1-10kVA)



KR1000-RM

KR2000~3000-RM

KR6000~10K-RM

Green Power

- AC/AC efficiency up to 95%, less operation cost and more energy saving
- Output power factor 1.0, more powerful to connect more critical loads
- Input PF >0.996 and THDi<5%, less power pollution and lower TCO

Flexible Rear Panel Configuration

- Dry contact and SNMP are optional
- Selectable output sockets
- External battery pack port available
- Programmable power management outlet (optional)

Hot-swappable Battery Design

- External battery pack is optional
- Easy for online battery replacement

User-friendly and Easy-shift LCD Display

- The digital display can be easily shifted through LCD setting to suit for vertical/ horizontal installation

Technical Specification

MODEL	KR1000-RM	KR2000-RM	KR3000-RM	KR6000-RM	KR1110-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.

KR-RM Li Series Lithium Battery UPS

(1-3kVA)

KR1000-RM Li

KR2000~3000-RM Li

Built-in Lithium-ion Battery

- Super-long backup time - 11 minutes backup time by internal battery
- Wide temperature range - tolerant for up to 60°C with no harm to the battery
- Internal lithium-ion battery long service life - up to 8 years of service life
- More circles for charge and recharge - up to than 1000 times
- Environment-friendly - lithium-ion battery

Green Power

- AC/AC efficiency up to 93.0%, less operation cost and more energy saving

Compact Dimension

- Space-saving, easy for installation

Rotatable LCD display

- The LCD display easily rotate for horizontal and vertical application

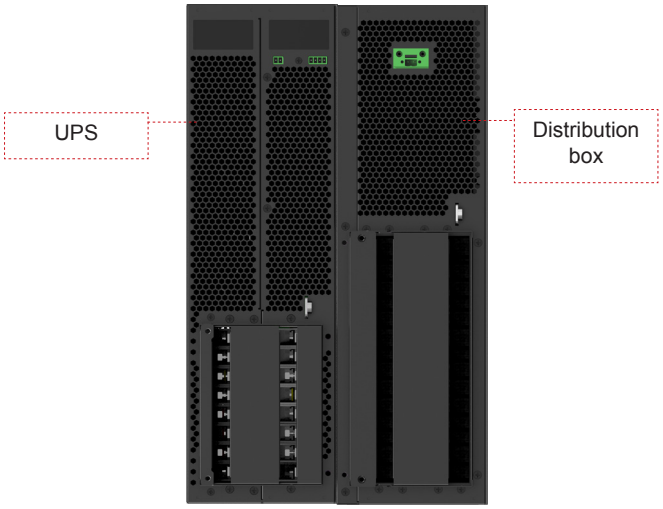
Technical Specification

MODEL	KR1000-RM Li	KR2000-RM Li	KR2200-RM Li	KR3000-RM Li
INPUT				
Voltage (Vac)	120-295			
Frequency (Hz)	50/60±10% (50/60Hz auto-sensing)			
Power Factor	≥0.99			
THDi	<5% (non-linear)			
OUTPUT				
Capacity (VA)	1000	2000	2200	3000
AC/AC Efficiency	91.5%	91.5%	91.6%	93%
Power Factor	0.9			
Voltage (Vac)	208/220/230/240±1% (settable)			
Frequency (Hz)	50/60±0.1 (battery mode)			
THDv	<3% (linear load)			
Transfer Time (ms)	0			
ECO Mode	Yes			
Overload	101%~115% load for 1 min, 116%~133% load for 1s, above 134% load for 200ms			
LITHIUM-ION BATTERY				
Voltage (Vdc)	24	48	72	72
Backup Time (mins)	11	11	22	11
Charging Current (A) Max.	4			
GENERAL				
Communication Interface	USB and SNMP (slot) (RS232+dry contact is optional in slot)			
Output Outlet	(1)IEC C19 + (6)IEC C13			
Display	LCD displays the running status of UPS			
Alarm	Battery low-voltage, mains abnormal, UPS fault, output overload			
Protection	Battery under-voltage protection, overload protection, short-circuit protection, over-temperature protection, input over-voltage protection			
Noise (dB)	< 55			
Working Temperature	The operating temperature is 0°C~60°C (Best operating temperature is 0~40°C, output power derated from 40°C~60°C)			
Relative Humidity	0 ~ 95%, No condensation			
Dimension (W×D×H) (mm)	438×420×87	438×570×87	438×615×87	438×570×87
Weight (kg)	8.9	13.6	19.1	16.1

- Specification is subject to change without prior notice.

KR-RM Series

(10-40kVA)



Model: KR-RM 30-40kVA

Green Power

- Low THDi: 3% at linear load
- High AC/AC efficiency up to 96%

Excellent Flexibility

- 3U height tower and rack compatible design
- Adjustable input and output to 33\31\11
- Common battery
- LCD rotate setting by (10-20kVA), gravity auto-rotate by (30-40kVA)
- Adjustable battery pcs and charging current

Advanced Technology

- Super wide input voltage range -60%~+25% for high grid adaptability
- Dual DSP control technology for top perfomance
- Anti-corrosion resistant coating for all PCB boards
- Intelligent fan speed control reduces the noise and prolongs fan service life
- Anti-corrosion resistant coating in all PCB boards
- ECO and EPO

More Options

- External UPS input and output distribution box
- Dry contact kits and SNMP
- Input and output isolation transformer
- 19 inch rail kits

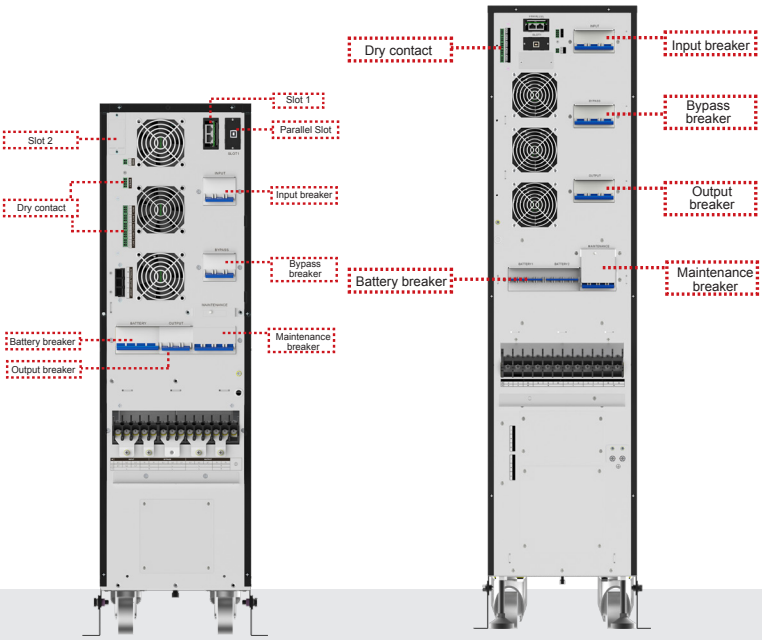
Technical Specification

MODEL		KR10KVA-RM	KR15KVA-RM	KR20KVA-RM	KR30KVA-RM	KR40KVA-RM
INPUT						
Voltage (Vac)[1]		138-485 (L-L)				
Frequency (Hz)		40-70				
Power Factor		≥0.99				
THDi		<3% (linear load)				
Phase		1:1/3:1/3:3			3:1/3:3	
OUTPUT						
Capacity (kVA)		10	15	20	30	40
AC/AC Efficiency (Max.)		96%				
Power Factor		0.9 (1.0 at 40°C)				
Voltage (Vac)[2]		380/400/415±1% (L-L)				
Frequency (Hz)		50/60±0.1 (battery mode)				
THDv		THD <2% (linear load), THD < 4% (nonlinear load)			THD <1% (linear load), THD <3% (nonlinear load)	
Transfer Time (ms)		0				
Overload		115%~130% load: 15 min, 130%~150% load: 1 min, >150% load: 200ms				
ECO Mode		Yes				
BATTERY						
Voltage (Vdc)		±192 (±144~±240 adjustable)/32 pcs default (28-40 pcs adjustable)				
Charging Current (A)		4 (1-10 settable)			15 (1-20 settable)	
GENERAL						
Communication Interface		RS485+EPO (RS232+Dry contact, SNMP are optional in slot)				
Display		LCD				
Alarm		Low battery, abnormal AC input, UPS failure, etc.				
Protection		Low battery, overload, short-circuit and over temperature, etc.				
Noise (dB)		< 55				
Working Temperature (°C)		-5~40			-5~50	
Relative Humidity		0 ~ 95%, no condensation				
Dimension (W×D×H)(mm)	UPS	438×500×130(3U)			438×680×130 (3U)	
	Distribution Box	438×500×130(3U)			438×680×130 (3U)	
	Batt. Pack	438×500×130(3U)			438×680×130 (3U)	
Weight (kg)	UPS	20			34	
	Distribution Box	8			14	

- Specification is subject to change without prior notice.
- 80-280 (L-N) for single phase input;
- 220/230/240 (L-N) for single phase output.

Myria Series

(10-40kW)



Green Power

- Super wide input voltage range -65%~+20% for higher grid adaptability
- Dual DSP control for high performance
- Intelligent fan speed control reduce noise and prolong fan life
- Anti-corrosion resistant coating for all PCB boards
- Full protection with input, output, bypass, maintenance bypass and battery breaker
- ECO mode and EPO function

Flexible Design

- Adjustable output voltage
- Built-in battery and flexible battery configuration
- Common battery bank
- Easy onsite parallel slot modification
- Wheel design
- Options are displayed in 7 languages: English, Russian, Chinese, Spanish, Polish, Italian and Korean

Advanced Technology

- Super wide input voltage range -65%~+20% for higher grid adaptability
- Dual DSP control for high performance
- Intelligent fan speed control reduce noise and prolong fan life
- Anti-corrosion resistant coating for all PCB boards
- Full protection with input, output, bypass, maintenance bypass and battery breaker
- ECO mode and EPO function

Technical Specification

MODEL		MY10	MY20	MY30	MY40
INPUT					
Phase		3:3/3:1/1:1		3:3/3:1	
Voltage (Vac)		80-280 (L-N)/138-485 (L-L)		138-485 (L-L)	
Frequency (Hz)		s40-70			
Power Factor		≥0.99			
THDi at full Linear load		<3% (linear load)			
Dual Main Input		Yes			
OUTPUT					
Capacity (kW)		10	20	30	40
AC/AC Efficiency (Max.)		96%			
Power Factor		1.0			
Voltage (Vac)		220/230/240±1% (L-N) 380/400/415±1%(L-L)			
Frequency (Hz)		50/60±0.1 (battery mode)			
THDv		≤2% (linear load), ≤4% (non-linear load)		≤1% (linear load), ≤4% (non-linear load)	
Crest Factor		3:1			
Overload		110% load for 60 mins, 130% load for 10 mins, 155% load for 1 min, above 155%-200% load for 200ms			
EPO		Remote and Local			
Cold Start		Yes			
BATTERY					
Voltage (Vdc)		±192 (±96 ~±240 adjustable)	±192 (±144 ~±240 adjustable)*		
Internal Battery		16~40*9AH/12V	24~40*9AH/12V	48~80*9AH/12V	
Charging Current (A)		1-10 settable		1-20 settable	
GENERAL					
Communication Interface		RS485+EPO+Dry contact (1 input,5 output)(SNMP are optional in slot)			
Display		4.3 Inch Touch Screen+ LED+ Physical buttons			
Alarm		Low battery, abnormal AC input, UPS failure, etc.			
Protection		Low battery, overload, short-circuit and over temperature, etc.			
Noise (dB)		<55			
Working Temperature (°C)		-5~40			
Relative Humidity		0 ~ 95%, no condensation			
Altitude (m)		2000, no derate			
Dimension (W×D×H)(mm)		250×755×880		300×785×1250	
Weight (kg)	with Battery	98 (20 ×9AH)	132 (32×9AH)	240 (64×9AH)	240 (64×9AH)
	without Battery	50		85	
	with TX	143		240	

- Specification is subject to change without prior notice.

* Capacity will derate when battery voltage between ±144~±180

Myria Series

(60-200kW)

4.3" Touch Screen

7" Touch Screen

Normal Mode

Bypass Mode

Warning Mode

Green Power

- AC/AC efficiency up to 96.5% and 30% load up to 95% efficiency reduces heat dissipation and limits power consumption costs
- High input power factor up to 0.99 and low Input THDi: < 3.0% at full load, much less grid pollution and costs
- Intelligent sleep mode which UPS sleep in random keep maxinum efficiency and energy saving

Flexible Design

- 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 trouble shooting
- Main unit display allow to check the information of each UPS status during parallel mode.

Advanced Technology

- Latest generation IGBT and three level technology, Low harmonic, high efficiency, effectively energy-saving.
- 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
- Anti-corrosion resistant coating for all PCB boards
- Separate internal air channel which hot air drives directly towards heat sink without distressing the PCB's and other internal sensitive components

Technical Specification

MODEL	MY60	MY80	MY100	MY120	MY160	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% (linear load)					
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	80	100	120	160	200
Power Factor	1					
Voltage (Vac)	380/400/415±1%					
Frequency (Hz)	50/60±0.1% (Battery mode)					
Phase	3φ4W+PE					
Three Phase Difference	≤1%					
THDv	<1% at linear load, <4% 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	RS485, MODBUS, dry contact (RS232, 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.

FR-UK33 Series

(10-600kVA)

Green & Reliability

- High reliability DSP control
- Intelligent fan speed control
- Full protection function
- ECO mode and EPO function
- Efficiency 98% at ECO-mode
- 10,000 events logs
- Battery self-test function
- 12 Pulse rectifier (optional)
- Bypass isolation transformer (optional)

Excellent Flexibility

- Allow 100% three phase unbalance load
- Intelligent RS232/RS485 & DB9 dry contact
- communication port
- DC cold start function (optional)
- Intelligent battery monitor system-MMBM (optional)
- MODBUS & SNMP adapter (optional)

Advanced Technology

- Online double conversion
- Wide input voltage range
- IGBT inverter and output isolation transformer
- Advanced battery charging management
- Advanced no-master-slave parallel technology (optional)

Technical Specification

MODEL	FR-UK 3310	FR-UK 3320	FR-UK 3330	FR-UK 3340	FR-UK 3360	FR-UK 3380	FR-UK 33100	FR-UK 33120	FR-UK 33160	FR-UK 33200	FR-UK 33250	FR-UK 33300	FR-UK 33400	FR-UK 33500-12P	FR-UK 33600-12P
INPUT															
Voltage (Vac)	380/400/415±25%														
Rectifier Frequency (Hz)	40~70														
SYNC Frequency Tracking (Hz)	50/60±10% (±5% settable)														
Phase	3φ4W+PE														
OUTPUT															
Capacity (KVA)	10	20	30	40	60	80	100	120	160	200	250	300	400	500	600
Power Factor	0.9														
Phase	3φ4W+PE														
Voltage (Vac)	L-N:220/230/240±1%, L-L:380/400/415±1%														
Frequency (Hz)	50/60±0.2 (battery mode)														
Waveform	Pure sine wave, THD≤2% (linear load)														
3 Phases 100% Load Unbalance Voltage Stability	≤2%, allow 100% unbalance														
Overload	125% load for 10mins, 150% load for 1 min														
BATTERY															
Voltage (Vdc)	348 (360 settable)									384 (348/360/372 settable)					
Battery Type	External														
Charging Current (A)	10~40A settable									10-100A settable					
GENERAL															
Maintenance Bypass	Yes														
Communication Interface	RS485, MODBUS, dry contacts (SNMP is optional)									RS232, RS485, dry contacts (SNMP is optional)					
Display	Touch screen + LED														
Alarm	Overload, abnormal AC input, low battery, UPS failure, etc.														
Protection	Low battery, overload, over temperature, short circuit, output over voltage, output low voltage, etc.														
Noise (dB)	< 65									< 70					
Working Temperature(°C)	0~40														
Relative Humidity	0 ~ 95%, no condensation														
Dimension (W×D×H)(mm)	500×600×1180			500×800×1600			700×800×1800			1400x1000x1850		1600×1000×1850		3000×1000×1850	
Weight (kg)	230	260	300	400	450	520	600	650	825	1280	1568	1830	2050	4500	

- Specification is subject to change without prior notice.
- If the higher charging current is adjusted, the UPS capacity shall be derated.

KR33 Series

(300-1200kVA)

Green Power

- High AC/AC efficiency up to 97%
- ECO mode efficiency up to 99%
- High power factor up to 1
- Low THDi <3%

Flexible Design

- Common battery bank sharing in parallel system
- Multiple communication interface
- 3-stage battery charging mode
- Self-load test function without load enables onsite commission
- Common bypass cabinet
- External input and output isolation transformer

Advanced Technology

- Three level inverter technology
- Support parallel mode up to 9.6MVA
- External input/output transformer connection
- Auxiliary power supply redundancy design

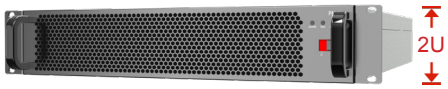
Technical Specification

MODEL	KR33300	KR33400	KR33500	KR33600	KR33800	KR331000	KR331200
INPUT							
Rate Voltage (Vac)	380/400/415						
Voltage Range (Vac)	228-477 (-40%~+25%)						
Phase	3Ph+N+PE						
Frequency Range (Hz)	50/60±10% (±5% settable)						
Power Factor	≥ 0.99						
THDi	<3% (linear load)						
OUTPUT							
Output Voltage (Vac)	380/400/415±1%						
Frequency (Hz)	50/60±0.5%						
THDv	<1% (linear load), <3% (non-linear load)						
PF	0.9 (1.0 optional)						
Max. Efficiency	97%						
Phase	3Ph+N+PE						
Overload	110% load for 60 min, 125% load for 10 min, 150% load for 1 min, above 150% will transfer to bypass after 1s						
BATTERY							
Voltage (Vdc)*	480 (12V battery from 32 to 44 cells settable)				528 (12V battery from 32 to 48 cells settable)		
Charging Current (A)	25-100				25-200		
Common Battery	Yes						
GENERAL							
Communication Interface	RS232, RS485, Dry contact, MODBUS, SNMP (optional)						
Display	7-inch touch screen+LED						
Working Temperature (°C)	-5~40						
Alarm	Input abnormal, battery low-voltage, output overload, UPS failure						
Protection	Short-circuit, overload, over-temperature, battery under voltage, input under voltage						
IP	IP20						
Noise (dB)	<75						
Altitude (m)	1500						
Dimension (W×D×H) (mm)	1000×900×1950		1400×900×1950		1900×900×1950	3000×900×1950	
Weight (kg)	750		1100		1450	2400	

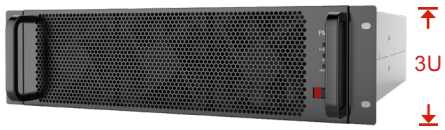
- Specification is subject to change without prior notice.

MR33 Series Modular UPS

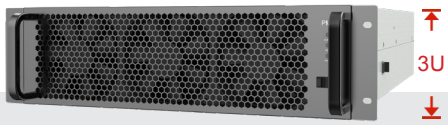
(30kW/50kW/100kW Module)



30K Module
Dimension (W×D×H): 440×640×86mm



50K Module
Dimension (W×D×H): 440×640×130mm



100K Module
Dimension (W×D×H): 440×750×130mm

Green Power

- Efficiency up to 97%
- Intelligent fan speed control
- ECO mode and EPO function

Excellent Flexibility

- Allow 100% three phase unbalance load
- Intelligent battery management
- Parallel expansion up to 8 units
- Fault Trace Management (Black box)
- Programmable dry contacts

Advanced Technology

- Online double conversion
- Battery cold start function
- Advanced power module sleep mode
- Dual system control card
- Self-load test function
- Frequency converter function
- Redundant design
- 30k 2U design

Technical Specification

MODEL		MR33120	MR33200	MR33300	MR33400	MR33500	MR33600
Power Modu		**MR3330-J**	**MR3350-J**				
Capacity (kW)		30	50				
INPUT							
Rated Voltage (Vac)		380/400/415					
Voltage Range (Vac)		L:L 138~485					
Input Frequency (Hz)		40~70					
Bypass Voltage Range (Vac)		-15% (-20%/-30% optional) ~+15%(+10% /+20% optional)					
Power Factor		≥0.99					
THDi		3% (linear load)					
Phase		3Φ4W+PE					
Battery Voltage (Vdc)		±192 (±168~±276 settable)	±192 (±180~±276 settable)	±240 (±168~±276 settable)			
Charging Current (A)		N×10 Maximum (N: the number of power modules)					
OUTPUT							
Capacity (kVA)		120	200	300	400	500	600
Power Factor		1					
Phase		3Φ4W+PE					
Waveform		sine wave					
Voltage (Vac)		L-L:380, 400, 415±1%					
Frequency (Hz)		50/60± 0.2% (battery mode)					
Three Phase Difference		≤1 degrees					
THDv		≤1% (linear load, full load), ≤4% (nolinear load, full load)					
Static Bypass Transfer Time		0					
Max.Efficiency		96%	97%				
Parallel Mode		Advanced no-master-slave parallel technology, N+1 redundancy					
Overload Capacity		106-110% load for 60mins, 111%-130% load for 10mins, 131%-150% load for 1 min, 151%-200% load for 200ms					
GENERAL							
Working Temperature (°C)		-5~40					
Storage Temperature (°C)		-40~70					
Relative Humidity		0%~95%, no condensing					
Battery Type		Lead-acid batteries and lithium iron phosphate batteries					
Communication Interface		RS485, RS232, dry contact (SNMP optional)					
Noise (dB)		< 65	< 70				
Dimension (W×D×H) (mm)		600×860×2000			1200×860×2000		
Weight (kg)	Cabinet	180	224	236	427		
	Bypass Module	17	19	25	25	31	31
	Power Module	27	33				

- Specification is subject to change without prior notice.

Technical Specification

Model		MR33400	MR33500	MR33600	MR33800	MR331000	MR331200
Power Module		**MR33100-J**					
Capacity (kW)		100					
Input							
Voltage Range (Vac)		138~485 (324~485 no derating, 138~323 linear derating)					
Frequency Range (Hz)		40~70					
Power Factor		>0.99					
THDi		2% (linear load)					
Phase		3Ph+N+PE/3Ph+PE (optional)					
Bypass synchronization tracking range (Hz)		50/60±4					
Bypass input voltage range (Vac)		304~438					
Battery Voltage (VDC)		±180~±300					
Output							
Power Factor		1.0					
Phase		3Ph+N+PE					
Voltage (Vac)		380/400/415±1%					
Frequency (Hz)		50/60±0.1%					
THDv		<1% (linear load), <3% (non-linear load)					
Max. Efficiency		97%					
Overload Capacity		106-110% load for 60 minutes, 111%-125% load for 10 minutes, 126%-150% load for 1minute, 151%~200% load change to bypass immediately					
Static Bypass Transfer Time		0					
Cool Start		Yes					
GENERAL							
Working Temperature (ºC)		0-40					
Storage Temperature (°C)		-40~70					
Relative Humidity		0~95%, no condensation					
Battery Type		Lead-acid batteries and lithium iron phosphate batteries					
Communication Interface		RS232, RS485, Dry contact, MODBUS, SNMP (optional)					
Alarm		Input abnormal, battery low-voltage, output overload, UPS failure					
Protection		Short-circuit, overload, over-temperature, battery under voltage, input under voltage					
Noise (dB)		<70					
Dimension (W×D×H)(mm)		1200*1000*2000			1400*1000*2000	1800*1000*2000	
Weight(kg)	Cabinet	480	506		580	731	
	Bypass Module	32	50		60	120	
	Power Module	55					

- There are other optional accessories to choose;
- Specifications are subject to change without notice;
- Because of module redundancy, it is not recommended to configure only one power module.

Reliable • Flexible • Responsible

Kehua Tech

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