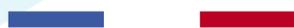


**IDSUD**  
ENERGIES



# 05 UPS

- > In addition to its production solutions, IDSUD Energies offers a wide variety of UPS, capable of satisfying the needs and constraints of different projects, thanks to different models and powers.
- > From residential installation to photovoltaic, through industrial application, the diversity of the offer enables the brand to meet every project. These high-quality on-grid or off-grid energy storage and redistribution systems are the assets of EnR installations.

## PRODUCT

FR-UK 11 Series Online UPS (1-15kVA)  
FR-UK 31 Series Online UPS (10-50kVA)  
FR-UK 33 Series Online UPS (10-600kVA)  
FR-UK 33A Series Online UPS (10-200kVA)  
KR 11 Plus Series Online UPS (1-3kVA)  
KR 11-T PLUS Series UPS (1-10kVA)  
KR 11 Series Online UPS (1-10kVA)  
KR UL Series Online UPS (1-5kVA)  
KR 11 T Series Online UPS (6-10kVA)  
KR-J Series Online UPS (1-10kVA)  
KRA-J Series Online UPS (1-5kVA)  
KR 31 Series Online UPS (10-20kVA)  
KR 33 Series Online UPS (10-60kVA)  
KR 33A Series Online UPS (10-30kVA)  
KR 33 Series IGBT UPS (80-600kVA)  
MR SERIES MODULAR UPS (20-520kVA)  
KI Series Sine-wave Line interactive UPS (1-5kVA)  
Mini-guard Series Off Line UPS (500-2000VA)  
DJN Series 48Vdc Inverter (1-5kVA)  
DJN-P Series 48Vdc Modular Inverter (3-12kVA)  
RACK ATS (1 phase rack automatic transfer switch 10-32A/2-6kVA)  
STS System (3 phase static transfer switch 63-400A/40-250kVA)  
Li UPS series Sine wave lithium battery UPS (500-3000VA)  
Li UPS-A series Sine wave UPS (500-3000VA)  
ZL Series 240VDC Power System (12-480kVA)

# FR-UK 11 SERIES ONLINE UPS (1-15kVA)

## MAIN FEATURES

- > Online double conversion
- > Output isolation transformer
- > Wide input voltage range
- > Full protection function
- > High reliability and performance
- > Intelligent RS232 /RS485& DB9 dry contact communication port
- > Management software (optional)
- > External battery bank (optional)
- > SNMP adapter or USB (optional)

## APPLICATION

- > IT device
- > Data center
- > Commercial facility
- > Telecommunication
- > Industry



MODEL		FR-UK10/ FR-UK10L	FR-UK20/ FR-UK20L	FR-UK30/ FR-UK30L	FR-UK50/ FR-UK50L S	FR-UK60/ FR-UK60L	FR- UK1110S/ FR-UK1110	FR- UK1115S/ FR-UK1115	
INPUT	Voltage (Vac)	220/230/240V MODEL:165-275 110 / 120V MODEL: 85~137							
	Frequency (Hz)	50/ 60±5% (50/60Hz settings)							
	Phase	Single phase three wires							
OUTPUT	Capacity (VA)	1000	2000	3000	5000	6000	10 000	15 000	
	Power Factor	0.8 ( 0.7/0.9 optional )							
	Voltage range (Vac)	220/230/240±2% or 110/120±2%							
	Frequency (Hz)	50 / 60 ±0.5% (battery mode)							
	Waveform	Pure Sine wave,THD<3% ( Linear load )							
	Transfer Time	0							
	Overload	125% load for 60 seconds , 150% load for 1 second							
BATTERY	Voltage (Vdc)	48		96/192		192			
	BATT Type	4×7Ah 12V/ External	8×7Ah 12V/ External	8×7Ah 12V/ External	16×7Ah 12V/ External	16×7Ah 12V/ External	32×7Ah 12V/ External	48×7Ah 12V/ External	
	Charger Current (A) Max	1/4.5	1/4.5	1/4.5	1/8.0		2/6	3/4.5	
OTHER	Communication Interface	RS232,dry contact ( USB and SNMP adapter are optional)							
	Display	LCD display input voltage, output voltage, load capacity, battery voltage, etc.LED indicates running status							
	Alarm	Overload, abnormal AC input, low battery							
	Protection	Low battery, overload, over temperature, short circuit, output over voltage, output low voltage							
	Noise (dB )	≤55							
	Working Temperature	0~40°C							
	Relative humidity	0~95%(no condensation)							
	Dimension (W×D×H)(mm)	230×610×470(L)/230x635x690					400×800 ×1180/ 300x610x530		400×800 ×1180 400×800×1180
	Weight (kg) Standard/ Long backup	48/36	74/49	82/44	91/44	91/45	308/65	353/158	

- > Specification is subject to change without prior notice.
- > 110V, 120V systems are available with some different parameters.

# FR-UK 31 SERIES ONLINE UPS (10-50kVA)

## MAIN FEATURES

- > Online double conversion
- > IGBT inverter and output isolation transformer
- > High reliability DSP control
- > Wide input voltage range
- > DC cold start function
- > Full protection function
- > Intelligent RS232 /RS485 & DB9 dry contact communication port
- > SNMP adapter (optional)
- > Advanced no-master-slave parallel technology (optional)
- > Intelligent battery monitor system - MMBM (optional)

## APPLICATION

- > Computer room
- > Data center
- > Precision instrument
- > Intelligent equipment
- > Industrial application



MODEL		FR-UK3110S/ FR-UK3110	FR-UK3115S/ FR-UK3115	FR-UK3120	FR-UK3130	FR-UK3140	FR-UK3150	
INPUT	Voltage (Vac)	380/400/415±25%						
	Frequency (Hz)	50/60±5%						
	Phase	Three phase in single phase out (L1,L2,L3,N,G)						
OUTPUT	Capacity (KVA)	10	15	20	30	40	50	
	Power Factor	0.8 (0.9 optional)						
	Voltage (V)	220/230/240±1%						
	Frequency (Hz)	50/60±0.5% (battery mode)						
	Waveform	Pure sine wave THD <3% (linear load)						
	Overload	125% load for 1min, 150% load for 1 second			125% load for 1 minute, 150% load for 20 seconds			
	Transfer Time	0						
BATTERY	Voltage (Vdc)	192			348			
	BATT Type	32×7Ah 12V/ External	48×7Ah 12V/ External	Externa				
	Charger Current (A) Max	2/6			10~20 setting			
OTHER	Maintenance Bypass Switch	Optional			Standard			
	Communication Interface	RS232/RS485 and dry contact (MODBUS and SNMP adapter are optional)						
	Display	LCD Display indicates frequency, voltage, load, battery voltage, etc. LED indicates running status.						
	Alarm	Low battery, abnormal AC input, overload, UPS failure						
	Protection	Low battery, overload, output over voltage, short-circuit, over temperature						
	Noise (dB)	<60			<65			
	Working Temperature	0 ~ 40°C						
	Relative Humidity	0 ~ 95%, No condensation						
	Dimension (W×D×H)(mm)	400×800×1180/ 350×780×720			400×800×1180			
Weight (kg) Standard/ Long backup	230/130	320/160	205	230	270	300		

- > Specification is subject to change without prior notice.
- > For Parallel system, Maintenance Bypass Switch is not available.

# FR-UK 33 SERIES ONLINE UPS (10-600kVA)

## MAIN FEATURES

- > Online double conversion
- > IGBT inverter and output isolation transformer
- > 3 phases UPS allow 100% unbalance load
- > Fully DSP control, high reliability and performance
- > Wide input voltage range
- > DC cold start function
- > Advanced battery charging management
- > Intelligent fan speed control
- > ECO mode and EPO function.
- > Intelligent RS232/RS485, DB9 dry contact communication port
- > SNMP adapter (optional)
- > Advanced no-master-slave parallel technology (optional)
- > Intelligent battery monitor system - MMBM (optional)
- > 12 Pulse rectifier (optional)
- > Bypass isolation transformer (optional)

## APPLICATION

- > Computer room
- > Data center
- > Precision instrument
- > Intelligent equipment
- > Industrial application



MODEL		FR-UK 3310/ FR-UK3310S	FR-UK 3320/ FR-UK3320S	FR-UK 3330/ FR-UK3330S	FR-UK 3340	FR-UK 3350	FR-UK 3360	FR-UK 3380	FR-UK 33100	FR-UK 33120	FR-UK 33160	FR-UK 33200 FR-UK 33200	FR-UK 33300 FR-UK 33200	FR-UK 33400 FR-UK 33200	R-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% optional)														
	Phase	3φ4W+PE														
OUTPUT	Capacity (KVA)	10	20	30	40	50	60	80	100	120	160	200	300	400	500	600
	Power Factor	0.9 (0.8/1.0 optional)														
	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≤3% (linear load)														
	3 Phases 100% Load Unbalance Voltage Stability	≤2%,allow 100% unbalance														
	Overload	105% load for 60mins, 125% load for 10 mins, 150% load for 1min														
BATTERY	Voltage (Vdc)	348 (360 optional)										384 (348/360/372 setting)				
	BATT Type	External /Max 7Ah 12V 58pcs			External											
	Charger Current(A)Max	10~40A setting										10-100A setting				
	Battery Self-testing	Automatically alarm and estimate battery status in battery abnormal status														
OTHER	Maintenance Bypass	Yes														
	Communication Interface	RS232/RS485 and dry contact(MODBUS and SNMP adapter are optional)														
	Display	LCD 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										< 75				
	Working Temperature	0 ~ 40°C														
	Relative Humidity	0 ~ 95%, No condensation														
	Dimension (WxDxH) (mm)	500×800×1180/ 500×800×1600			800×800×160			1000×800×1800				400 x1000 x1850	1600×1000 ×1850		3000×1000 ×1800	
	Weight(kg)	200/ 380	240/ 420	290/ 470	450	470	490	690	725	775	905	1280	1830	2050	4 500	

> Specification is subject to change without prior notice.

# FR-UK33A SERIES ONLINE UPS (10-200kVA)

## MAIN FEATURES

- > Online double conversion
- > IGBT inverter and output isolation transformer
- > 3 phases UPS allow 100% unbalance load
- > Fully DSP control, high reliability and performance
- > Wide input voltage range
- > DC cold start function
- > Advanced battery charging management
- > Intelligent fan speed control
- > ECO mode and EPO function.
- > Intelligent RS232/RS485 communication port
- > SNMP adapter (optional)
- > Advanced no-master-slave parallel technology (optional)
- > Intelligent battery monitor system - MMBM (optional)
- > Bypass isolation transformer (optional)

## APPLICATION

- > Computer room
- > Data center
- > Precision instrument
- > Intelligent equipment
- > Industrial application



MODEL		FR-UK 3310A/ FR-UK 3310AS	FR-UK 3320A/ FR-UK 3320AS UK3320AS	FR-UK 3330A/ FR-UK 3330AS	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 10 mins, 150% load for 1 min.												
BATTERY	Voltage (Vdc)	192			348 (360 setting)								
	BATT Type	External /Max 7Ah 12V 64pcs				External							
	Charger Current(A)Max	10~40A setting											
	Battery Self-testing	Automatically alarm and estimate battery status in battery abnormal status											
OTHER	Maintenance Bypass	Yes											
	Communication Interface	RS232/RS485 and dry contact (MODBUS and SNMP adapter are optional)											
	Display	LCD 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	0 ~ 40°C											
	Relative Humidity	0 ~ 95%, No condensation											
	Dimension (WxDxH) (mm)	500×800×1180 /500×800×1600			800×800×1600				1400×1000×1850				1600×1000×2000
Weight(kg)	300 /500	325 /530	340 /540	590	620	670	970	1000	1200	1450	1700		

> Specification is subject to change without prior notice.

# KR11 PLUS SERIES UPS (1-3kVA)

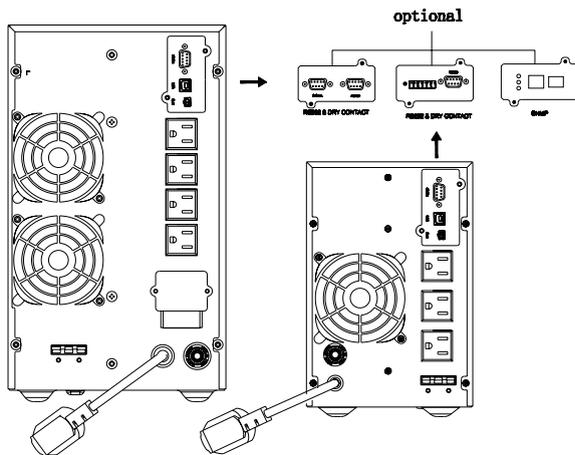
## MAIN FEATURES

- > Full digital control technology
- > Three level inverter technology
- > High AC/AC efficiency up to 94%
- > Low THDi: < 5%
- > High input power factor up to 0.996
- > High output power factor up to 1.0
- > ECO&EPO function
- > Perfect LCD display panel
- > Programmable rear panel
- > Full options for communication and monitoring



## TYPICAL APPLICATIONS

- > Data center
- > Commercial facility
- > Point-of-sale
- > Precision instrument
- > Network device



## AVAILABLE SOCKET



MODEL		KR1000+	KR1000L+	KR2000+	KR2000L+	KR3000+	KR3000L+
INPUT	Voltage(Vac)	120-295					
	Frequency (Hz)	50/60± 10% (50/60Hz auto-sensing)					
	Power Factor	≥0.99					
	THDi	<5%					
OUPUT	Capacity (VA)	<5%		2000		3000	
	AC/AC Efficiency	92%		93%		94%	
	Power Factor	0.9 (1.0 optional)					
	Voltage (Vac)	208/220/230/240±1% (settable on display panel)					
	Frequency(Hz)	50/60±0.1 (battery mode)					
	THDv	THD < 3% (linear load ); THD < 5% (nonlinear load)					
	Transfer Time	0					
	Overload	101%~115% for 1 min, 116%~133% for 1 s, above 134% for 200ms					
BATTERY	Voltage (Vdc)	24	36	48	48	72	96
	BATT Type	2×9Ah12V	External	4×9Ah12V	External	6×9Ah12V	External
	Charger Current(A)Max	1	4	1	4	1	4
OTHER	Communication Interface	RS232+USB+EPO (RS485, Dry contact and SNMP adapter are optional)					
	Display	LCD					
	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 ~ 40°C					
	Relative Humidity	0 ~ 95%, No condensation					
	Dimension (W×D×H)(mm)	145×360×225			190×390×330		
	Weight (kg)	9,2	4,5	20	10	24,2	10,1

> Specification is subject to change without prior notice.

# KR11-J PLUS SERIES UPS (1-3kVA)

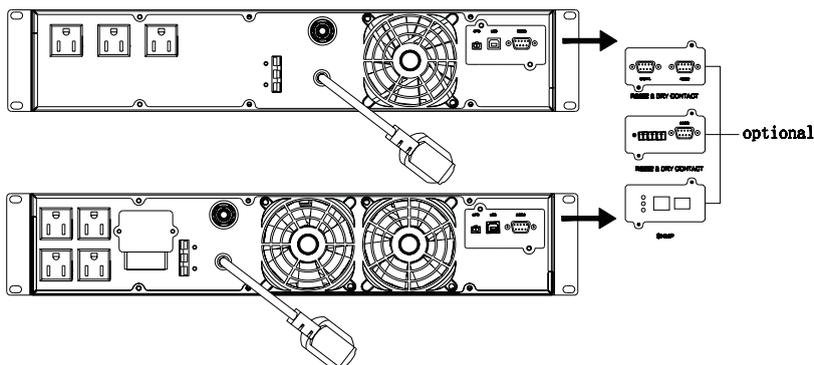


## MAIN FEATURES

- > Full digital control technology
- > Three level inverter technology
- > High AC/AC efficiency up to 94%
- > Low THDi: < 5%
- > High input power factor up to 0.996
- > High output power factor up to 1.0
- > ECO&EPO function
- > Perfect LCD display panel
- > Programmable rear panel
- > Full options for communication and monitoring

## TYPICAL APPLICATIONS

- > Data center
- > Point-of-sale
- > Commercial facility
- > Precision instrument
- > Network device



## AVAILABLE SOCKET



MODEL		KR1000-J+	KR1000L-J+	KR2000-J+	KR2000L-J+	KR3000-J+	KR3000L-J+	
INPUT	Voltage(Vac)	120-295						
	Frequency (Hz)	50/60± 10% (50/60Hz auto-sensing)						
	Power Factor	≥0.99						
	THDi	<5%						
OUPUT	Capacity (VA)	1000		2000		3000		
	AC/AC Efficiency	92%		93%		94%		
	Power Factor	0.9 (1.0 optional)						
	Voltage (Vac)	208/220/230/240±1% (settable on display panel)						
	Frequency(Hz)	50/60±0.1 (battery mode)						
	THDv	THD < 3% (linear load ); THD < 5% (nonlinear load)						
	Transfer Time	0						
	Overload	101%~115% for 1 min, 116%~133% for 1 s, above 134% for 200ms						
BATTERY	Voltage (Vdc)	24	36	48	72	72	96	
	BATT Type	2×9Ah12V	External	4×9Ah12V	External	6×9Ah12V	External	
	Charger Current(A)Max	1	4	1	4	1	4	
OTHER	Communication Interface	RS232+USB+EPO (RS485, Dry contact and SNMP adapter are optional)						
	Display	LCD						
	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 ~ 40°C						
	Relative Humidity	0 ~ 95%, No condensation						
	Dimension (W×D×H)(mm)	438×420×2U		438×420×2U(UPS) +438×420×2U (Battery pack)		438×420×2U(UPS) + 438×420×2U (Battery pack)		438×420×2U
	Weight (kg)	11,5	7	8+14	9,9	8,5+20	10	

> Specification is subject to change without prior notice.

# KR11 SERIES ONLINE UPS (1-10kVA)

## MAIN FEATURES

- > Online double conversion
- > High input power factor
- > Wide input voltage range
- > Full protection function
- > Automatic bypass
- > High reliability and performance
- > Intelligent RS232 communication port
- > 6KVA & 10KVA have ECO&EPO function
- > THDi≤5% (6KVA & 10KVA)
- > UPS management software (optional)
- > SNMP or USB or dry contact (optional)
- > External battery bank (optional)
- > Output transformer (optional)

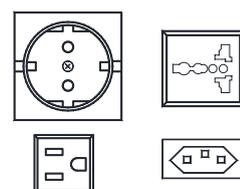
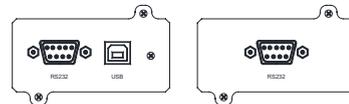
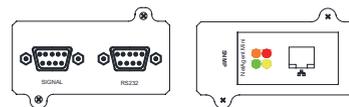
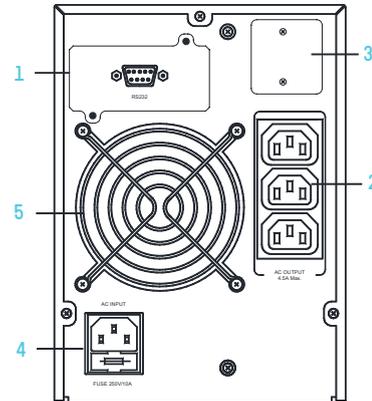
## APPLICATION :

- > Data center
- > Point-of-sale
- > Router
- > Hub and other network device
- > Commercial facility
- > Precision instrument



## 1kVA REAR PANEL :

1. Communication interface
2. AC output sockets
3. External battery connector
4. AC input socket
5. Fan



MODEL		KR1000/ KR1000L	KR2000/ KR2000L	KR3000/ KR3000L	KR6000/ KR6000L	KR1110S/ KR1110
INPUT	Voltage(Vac)	120-295			120~276	
	Frequency (Hz)	50/60± 5% (50/60Hz±10% settings)				
	Power Factor	≥0.99				
OUPUT	Capacity (VA)	1000	2000	3000	6000	10 000
	Power Factor	0.8 (0.9 optional)				
	Voltage (Vac)	220/230/240±2%				
	Frequency(Hz)	50/60±0.2% (battery mode)				
	Waveform	Pure sine wave THD < 3% (linear load				
	Transfer Time	0				
	Overload	105%~129% for 60 seconds, 130%~150% for 30 seconds, above 150% for 300ms			105%~129% for 10minutes, 130~150% for 1 minute, above150% for 1 second.	
BATTERY	Voltage (Vdc)	36	72	96	192	
	BATT Type	3×7Ah 12V/ External	6×7Ah 12V/ External	8×7Ah 12V/ External	16×7Ah 12V/External	
	Charger Current(A)Max	1/5			1/6	
OTHER	Communication Interface	RS232 (Dry contact, USB and SNMP adapter is optional)			RS232+USB+EPO (Dry contact, SNMP, MBS are optional)	
	Display	LED indicates the status of UPS (LCD is optional)			LCD & LED display	
	Alarm	Low battery, abnormal AC input, UPS failure				
	Protection	Low battery, overload, short-circuit and over temperature				
	Noise (dB)	< 45			< 60	
	Working Temperature	0 ~ 40°C				
	Relative Humidity	0 ~ 95%, No condensation				
	Dimension (WxD×H)(mm)	156×400×220	198×490×347		255×565×700/255×565×500	
	Weight (kg)	13/7	25/14	29/15	69/23	70/24

- > Specification is subject to change without prior notice.
- > Isolated transformers are optional for this series ups.

# KR UL SERIES ONLINE UPS 1-5kVA

## MAIN FEATURES

- > Online double conversion
- > High input power factor
- > Wide input voltage range
- > Full protection function
- > Automatic bypass
- > High reliability and performance
- > Intelligent RS232 communication port
- > UPS management software (optional)
- > SNMP or USB or dry contact (optional)
- > EPO for 5kVA
- > Manual bypass switch optional for 5kVA
- > External Battery Bank (optional)

## APPLICATION

- > Data center
- > Point-of-sale
- > Router
- > Hub and other network device
- > Commercial facility
- > Precision instrument.



MODEL		KR1000A/ KR1000AL	KR2000A/ KR2000AL	KR3000A/ KR3000AL	KR5000A/ KR5000AL
INPUT	Voltage (Vac)	80~148			83~138
	Frequency (Hz)	50/60Hz±5%			
	Power Factor	>0.99 at full load			
OUTPUT	Capacity (VA)	1000	2000	3000	5000
	Power Factor	0.8			
	Voltage (Vac)	110/115/120±2%			
	Frequency (Hz)	50/60±0.2%(battery mode)			
	Waveform	Pure sine wave THD < 3% (linear load)			
	Transfer Time	0 ms			
	Overload	105%~129% for 60 seconds, 130%~150% for 30 seconds, above 150% for 300ms			105%-129% load for 10 minutes 130%-149% load for 1 minute above 150% load for 1 second
BATTERY	Voltage (Vdc)	36	72	96	
	Internal BATT Type	3×7Ah 12V/ External	6×7Ah 12V/ External	8×7Ah 12V/External	
	Charger Current(A)Max	1/5	1/5	1/5	1/6
OTHER	Communication Interface	RS232 (Dry contact, USB and SNMP adapter is optional)			
	Display	LCD display parameters of UPS			
	Alarm	Low battery, abnormal AC input, UPS failure			
	Protection	Low battery, overload, short-circuit and over temperature			
	Noise (dB)	< 45			< 60
	Working Temperature	0 ~ 40°C			
	Relative Humidity	0 ~ 95%, No condensation			
	Dimension (W×D×H)(mm)	156×400×220	198×490×347		255×565×700/ 255×565×500
Weight (kg)	13/7	28/16	34/17	70/24	

> Specification is subject to change without prior notice.

# KR11 T SERIES ONLINE UPS (6-10kVA)

## MAIN FEATURES

- > Isolation output transformer
- > Online double conversion
- > High input power factor
- > Wide input voltage range
- > Full protection function
- > Automatic bypass
- > High reliability and performance
- > THDi $\leq$ 5%
- > Dual Output 208V/120V voltage
- > Intelligent RS232 communication port
- > UPS management software (optional)
- > SNMP or USB or dry contact (optional)
- > EPO
- > Manual bypass switch (optional)
- > External Battery Bank (optional)

## APPLICATION

- > Data center
- > Point-of-sale
- > Router
- > Hub and other network device
- > Commercial facility
- > Precision instrument



MODEL		KR6000T/ KR6000TL	KR1110T
INPUT	Voltage (Vac)	120~276 (L1, L2, G)	
	Frequency (Hz)	50/60Hz±5%	
	Power Factor	>0.99 at full load	
OUTPUT	Capacity (VA)	6000	10000
	Power Factor	0.8	
	Voltage (Vac)	200/208/220/230/240±2% or 110/120±3%	
	Frequency (Hz)	50/60±0.2%(battery mode)	
	Waveform	Pure sine wave THD < 3% (linear load )	
	Transfer Time	0ms	
	Overload	105%~129% for 10minutes, 130~150% for 1 minute, above150% for 1 second.	
BATTERY	Voltage (Vdc)	192	
	Internal BATT Type	16×7Ah 12V/External	External
	Charger Current(A)Max	1/5	5
OTHER	Communication Interface	RS232 (USB or Dry contact or SNMP adapter is optional)	
	Display	LCD display parameters of UPS	
	Alarm	Low battery, abnormal AC input, UPS failure	
	Protection	Low battery, overload, short-circuit and over temperature	
	Noise (dB)	< 60	
	Working Temperature	0 ~ 40°C	
	Relative Humidity	0 ~ 95%, No condensation	
	Dimension (W×D×H) mm	255×650×790	
Weight (kg)	147/105	107	

> Specification is subject to change without prior notice.

# KR-J SERIES ONLINE UPS (1-10kVA)

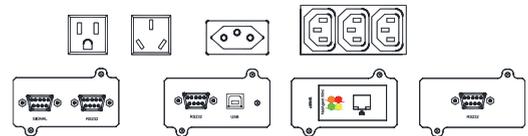
## MAIN FEATURES

- > Online double conversion
- > Rack and tower convertible
- > High input power factor
- > Wide input voltage range
- > Compact and light weight
- > High reliability and performance
- > Full protection function & Automatic bypass
- > Intelligent RS232 communication port
- > 6KVA & 10KVA UPS have ECO&EPO function
- > THDi $\leq$ 5% (6KVA & 10KVA)
- > UPS management software (optional)
- > SNMP, USB, dry contact (optional)
- > External battery bank, Tower housing, Rack kits (optional)



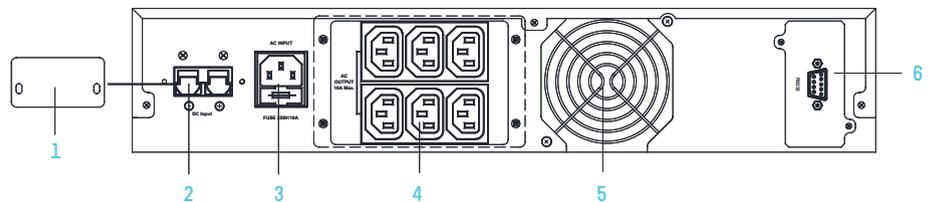
## APPLICATION

- > 19" rack device
- > Router
- > Computer room
- > Hub and network device
- > Data center
- > Commercial facility
- > Point-of-sale
- > Precision instrument



## 1kVA REAR PANEL

1. DC input cover
2. DC input port
3. AC input socket
4. AC output socket
5. Fan
6. Communication interface



MODEL		KR1000-J/ KR1000L-J	KR2000-J/ KR2000L-J	KR3000-J/ KR3000L-J	KR6000-J/ KR6000L-J	KR1110S-J/ KR1110-J
INPUT	Voltage (Vdc)	120-295			120~276	
	Frequency (Hz)	50/60± 5% (50/60Hz ± 10%settings)				
	Power Factor	≥0.99				
OUTPUT	Capacity (VA)	1000	2000	3000	6000	10000
	Power Factor	0.8 ( 0.9 optional)				
	Voltage (Vac)	220/230/240±2%				
	Frequency (Hz)	50/60±0.2%(battery mode)				
	Waveform	Sine wave, THD<3% at linear load				
	Transfer Time	0				
	Overload	105%~129% for 60 seconds, 130%~150% for 30 seconds, above 150% for 300ms			105%~129% for 10minutes, 130%~150% for 1 minute, above 150% for 1 second.	
BATTERY	Voltage (Vdc)	36	72	96	192	
	BATT Type	3×7Ah 12V/ External	6×7Ah 12V/ External	8×7Ah 12V/ External	16×7Ah 12V/External	
	Charger Current(A)Max	1/5	1/4	1/4	1.5 (2.5A is optional)	
OTHER	Communication Interface	RS232 (Dry contact, USB or SNMP adapter is optional)			RS232+USB+EPO (Dry contact or SNMP are optional)	
	Display	LED indicates the status of UPS (LCD is optional)			LCD & LED display	
	Alarm	Low battery, abnormal AC input, UPS failure				
	Protection	Low battery, overload, short-circuit and over temperature				
	Working Temperature	0~40°C				
	Relative Humidity	0~95%, No condensation				
	Dimension (W×D×H) mm Standard/ Long backup	440×500×2U	440×500×2U(UPS)+ 440×500×2U (Battery pack)/ 440×500×2U(UPS)		440×550×3U(UPS)+ 440×550×3U (Battery pack)/ 440×550×3U(UPS)	
	Weight (kg) Standard/ Long backup	14/7	10+22/12	11+28/13	21+53/ 21	

> Specification is subject to change without prior notice.

# KRA-J SERIES ONLINE UPS (1-5kVA)

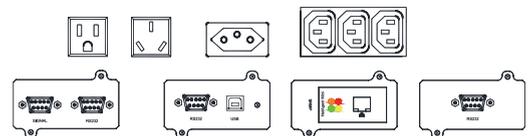


## MAIN FEATURES

- > Online double conversion
- > Rack and tower convertible
- > High input power factor
- > Wide input voltage range
- > Compact and light weight
- > High reliability and performance
- > Full protection function & Automatic bypass
- > Intelligent RS232 communication port
- > 5KVA UPS has ECO&EPO function
- > UPS management software (optional)
- > SNMP, USB, dry contact (optional)
- > External battery bank, Tower housing, Rack kits (optional)

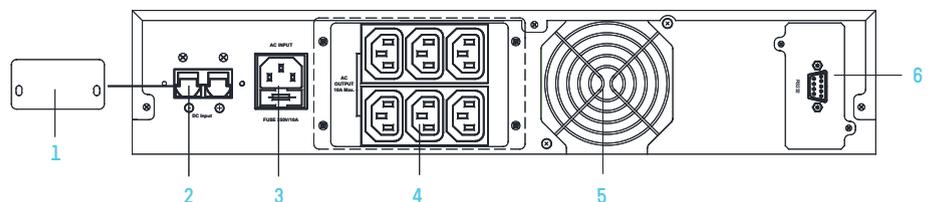
## APPLICATION

- > 19" rack device
- > Router
- > Computer room
- > Hub and network device
- > Data center
- > Commercial facility
- > Point-of-sale
- > Precision instrument



## 1kVA REAR PANEL

1. DC input cover
2. DC input port
3. AC input socket
4. AC output socket
5. Fan
6. Communication interface



MODEL		KR1000A-J/ KR1000AL-J	KR2000A-J/ KR2000AL-J	KR3000A-J/ KR3000AL-J	KR5000A-J/ KR5000AL-J
INPUT	Voltage (Vac)	80~148			60~138
	Frequency (Hz)	50/60± 5% (50/60Hz ± 10%settings)			
	Power Factor	≥0.99			
OUTPUT	Capacity (VA)	1000	2000	3000	5000
	Power Factor	0.8			
	Voltage (Vac)	110/120±2%			
	Frequency (Hz)	50/60±0.2%(battery mode)			
	Waveform	Sine wave, THD<3% at linear load			
	Transfer Time	0ms			
	Overload	105%~129% for 60 seconds, 130%~150% for 30 seconds, above 150% for 300ms			105%~125% for 10minutes, 125~150% for 1 minute, above150% for 1 second.
BATTERY	Voltage (Vdc)	36	72	96	96
	BATT Type	3×7Ah 12V/ External	6×7Ah 12V/ External	8×7Ah 12V/ External	16×7Ah 12V/ External
	Charger Current(A)Max	1/5	1/4	1/4	1/3
OTHER	Communication Interface	RS232 (Dry contact, USB or SNMP adapter is optional)			RS232+USB+EPO (Dry contact or SNMP are optional)
	Display	LED indicates the status of UPS			LCD & LED display
	Alarm	Low battery, abnormal AC input, UPS failure			
	Protection	Low battery, overload, short-circuit and over temperature			
	Working Temperature	0~40°C			
	Relative Humidity	0~95%, No condensation			
	Dimension (WxDxH)(mm) Standard/Long backup	440×500×2U	440×500×2U(UPS)+ 440×500×2U(Battery pack)/ 440×500×2U(UPS)		440×550×3U(UPS)+ 440×550×3U (Battery pack)/ 440×550×3U(UPS)
Weight(kg) Standard/long backup	14/7	10+22/12	11+28/13	18+48/18	

> Specification is subject to change without prior notice.

# KR31 SERIES ONLINE UPS (10-20kVA)

## MAIN FEATURES

- > Online double conversion
- > High reliability DSP control
- > Advanced PFC technology
- > Wide input voltage range
- > DC cold start function
- > Intelligent fan speed control
- > Full protection function
- > Advanced battery charging management
- > Intelligent RS232+USB+EPO communication port
- > SNMP adapter or dry contact (optional)
- > Advanced no-master-slave parallel technology (optional)
- > 1P/1P or 3P/1P is suitable without additional settings (15K and 20K only)

## APPLICATION

- > IT device
- > Data center
- > Precision instrument
- > Intelligent equipment



MODEL		KR3110S/KR3110	KR3115	KR3120
INPUT	Voltage (Vac)	380/400/415±25%(-45% in half load)		
	Frequency (Hz)	50/60 ±10%		
	Power Factor	≥0.98		
	Phase	3φ4W+PE		
	THDi	≤5%		
	Bypass Voltage (Vac)	180-260		
OUTPUT	Capacity (KVA)	10	15	20
	Power Factor	0.9 (0.8 optional)		
	Voltage(Vac)	220/230/240 ±1%		
	Frequency(Hz)	50/60±0.2%(battery mode)		
	Waveform	Pure sine wave THD <3% (linear load)		
	Overload	105%~125% load for 10 mins,126%~150% load for 1 min, above150% load for 1 second		
	Transfer Time	0		
	Efficiency	90%(linear load)	91%(linear load)	
	Crest Factor	3:1		
BATTERY	BATT Voltage(Vdc)	192		
	BATT Type	16×7Ah 12V/External	External	
	Charger Current(A )Max	1/5	5	
OTHER	Maintenance Bypass Switch	Standard		
	Communication Interface	RS232+USB+EPO (SNMP adapter, Dry contact are optional)		
	Display	LCD Display indicates frequency, voltage, load, battery voltage, etc. LED indicates running status		
	Alarm	Low battery, abnormal AC input, Overload, UPS failure		
	Protection	Low battery, overload, short-circuit, UPS failure, and input over/low voltage		
	Noise(dB)	<60		
	Working Temperature	0 ~ 40°C		
	Relative Humidity	0 ~ 95%, No condensation		
	Dimension (W×D×H) mm Standard/Long backup	255×565×700/255×565×500	255×565×585	
	Weight (kg) Standard/ Long backup	71/27	37	37

> Specification is subject to change without prior notice.

# KR33 SERIES ONLINE UPS (10-60kVA)

## MAIN FEATURES

- > Online double conversion
- > Fully DSP control
- > Advanced PFC technology, high input power factor
- > High reliability and performance
- > Wide input voltage range
- > DC cold start function
- > Advanced battery charging management
- > Intelligent fan speed control
- > ECO mode and EPO function
- > Full protection function
- > Intelligent RS232 /RS485 Communication Port
- > DB9 dry contact, maintenance Bypass
- > SNMP adapter (optional)
- > Advanced no-master-slave parallel technology (optional)
- > Intelligent battery monitor system - MMBM (optional)

## APPLICATION

- > Computer room
- > Data center
- > Precision instrument
- > Commercial facility
- > Intelligent equipment



MODEL		KR3310S/ KR3310	KR3320S/ KR3320	KR3330S/ KR3330	KR3340	KR3350	KR3360
INPUT	Voltage (Vac)	380/400/415±25% (-45% in half load)					
	Frequency (Hz)	50/60 ±10%					
	Bypass Voltage (Vac)	380/400/415+15%(+20% can choose)/-25%					
	Power Factor	≥0.99					
	Phase	3φ4W+PE					
OUTPUT	Capacity (KVA)	10	20	30	40	50	60
	Power Factor	0.9 (0.8/1.0 optional)					
	Voltage (Vac)	L-N:220/230/240±2% L-L:380/400/415±2%					
	Frequency (Hz)	50/60±0.2%(battery mode)					
	Phase	3φ4W+PE					
	Unbalance three-phase voltage stabilization with full load	≤2%					
	Waveform	Pure sine wave, THD<3% at linear load					
	Transfer Time	0					
	Efficiency	≥91%					
	Overload	106%~130% for 1 min, 131%~150% for 10 seconds, above 150% for 200ms					
BATTERY	Battery voltage (Vdc)	348					
	BATT Type	29×7Ah 12V/ External	58×7Ah 12V/ External	58×7Ah 12V/ External	External		
	Charging Current (A) Max	1.5/3(2.3/4.5 optional)		2.3/4.5		3 (6 optional)	
OTHER	Maintenance Bypass	Yes					
	Communication Interface	RS232/RS485, DB9 dry contact (MODBUS and SNMP adapter are optional)					
	Display	LCD Display indicates frequency, voltage, load, battery voltage, etc. LED indicates running status					
	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					
	Working Temperature	0~40					
	Relative Humidity	0 ~ 95%, No condensation					
	Dimension (W×D×H) mm Standard/ Long backup	400×800×1600 / 400×800×1180			500×800×1600		
	Weight (kg) Standard/ Long backup	200/110	210 / 125	330 / 135	215	235	255

> Specification is subject to change without prior notice.

# KR33A SERIES ONLINE UPS (10-30kVA)

## MAIN FEATURES

### High reliability

- > Online double conversion
- > DSP and full digital control
- > No-master-slave N+1 parallel technology
- > International IGBT power modules
- > Internal maintenance bypass
- > PCB boards feature with anti-corrosion paint coating

### High Performance

- > Manual bypass maintenance design
- > DC startup function
- > Allow 100% three phase unbalance load
- > EPO function

### Green UPS

- > Input power factor > 0.99
- > THDi <3%
- > Efficiency ≥93%

### Smart management

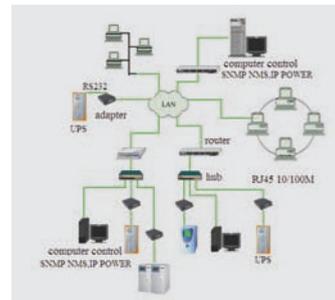
- > Intelligent battery charging
- > Intelligent battery management
- > Intelligent network supervising
- > Intelligent fans control

### Added-value service

- > Customized design
- > SNMP adapter
- > IP grade upgrade& temperature sensor
- > Input/bypass isolation transformer
- > Intelligent battery monitoring system



## UPS APPEARANCE



## FLEXIBLE NETWORK MANAGEMENT

MODEL		KR3310A/KR3310AS	KR3320A/KR3320AS	KR3330A/KR3330AS
INPUT	Nominal voltage (Vac)	110/115/120 (L-N)		
	Voltage range (Vac)	83~138V full load, 73~83V 75% load, 60~73V 50% load		
	Rectifier frequency (Hz)	50/60±5% (±10% optional)		
	Bypass voltage range (Vac)	110+15%(+20% optional)/-25%		
	Power factor (PF)	>0.99		
	THDI	<3%		
	Phase	3φ4W+PE		
	Battery	External/16pcs x 12AH 12V	External/32pcs x 12AH 12V	External/48pcs x 12AH 12V
	Battery voltage (VDC)	192		
	Charging current (A)	6A		
OUTPUT	Capacity (kVA)	10	20	30
	Power factor (PF)	0.9		
	Phase	3φ4W		
	Waveform	Pure sine wave		
	Voltage (Vac)	110/115/120 (L-N)		
	Frequency (Hz)	50/60± 0.1(battery mode)		
	Waveform distortion	THD≤3%		
	Static bypass transfer time (ms)	0		
	System efficiency	≥93%		
	Parallel mode	Advanced no-master-slave parallel technology, N+1 redundancy		
Overload capacity	106-130% load for 1min ; 150% load for 10s (to bypass)			
OTHERS	Maintenance bypass	Yes		
	DC cold start function	Yes		
	Display	Touch screen+LED		
	Communication function	RS232/RS485, dry contact,SNMP (optional)		
	Approvals	Meet standard EN 62040-2: 2006		
	Noise(dB)	<65		
	Dimension (WxDxH)(mm)	500×800×1500		

> Specification is subject to change without prior notice.

# KR33 SERIES IGBT UPS (80-600kVA)

## MAIN FEATURES

- > Online double conversion, three phases input, three phase output
- > IGBT rectifier, high input power factor
- > Standard in-built output isolation transformer (300~600kVA)
- > Wide input voltage range
- > DC cold start function
- > Advanced battery charging management
- > Intelligent fan speed control
- > ECO mode and EPO function
- > Full protection function
- > Intelligent RS232/RS485 & dry contact communication function
- > Maintenance Bypass
- > SNMP adapter (optional)
- > Advanced no-master-slave parallel technology (optional)
- > Intelligent battery monitor system-MMBM (optional)

## APPLICATION

- > Computer room
- > Data center
- > Precision instrument
- > Commercial facility
- > Intelligent equipment



MODEL		KR3380	KR33100	KR33120	KR33160	KR33200	KR33300	KR33400	KR33500	KR33600	
INPUT	Voltage range (Vac)	380/400/415 (L-L) ±25%					380/400/415 (L-L) -40% ~ +20%				
	Rectifier frequency (Hz)	50/60±10%									
	Bypass synchronization tracking range (Hz)	50/60±5% (±10% optional)									
	Bypass voltage range (Vac)	-25%~+15%			-30%~+20%			±20%			
	Power factor (PF)	≥0.99									
	THDI	<5%					<3%				
	Phase	3φ4W+PE					3φ+PE				
	Battery voltage (VDC)	480V (384~480 Setting)					480V (384~504 Setting)				
	Charging current (A)	10A(18A optional)			10~60A			20~100A			
OUTPUT	Capacity (kVA)	80	100	120	160	200	300	400	500	600	
	Power factor (PF)	0.9 (0.8 / 1 optional)									
	Phase	3φ4W+PE									
	Waveform	Pure sine wave									
	Voltage (Vac)	380/400/415 ±1% (L-L)									
	Frequency (Hz)	50/60± 0.2% (battery mode)									
	Three phase difference	≤2 degrees									
	Waveform distortion (100% Linear load)	THD≤3%			THD≤2%			THD≤1%			
	transfer time (ms)	0									
	System efficiency	≥92%			≥95%						
	Parallel mode	Advanced no-master-slave parallel technology, N+1 redundancy									
	Overload capacity	106%~130% for 10 mins, 131%~150% for 10 seconds, above 150% for 200ms									
OTHER	Maintenance bypass	Yes									
	DC cold start function	Yes									
	Display	LCD+ LED				Touch screen+ LED					
	Communication function	RS232/RS485, dry contact (SNMP optional)			RS232/RS485, (dry contact, SNMP optional)			RS232/RS485,dry contact (SNMP, MODBUS optional)			
	Approvals	CE (EN 62040-2, IEC 62040-1)					EN62040-2:2006				
	Noise (dB)	<70dB			<67dB			<72dB		<75dB	
	Dimension (WxDxH)(mm)	850×800×1800			1200×800×1800			1600×1000×1800		2200×1000×1800	
	Weight(kg)	470	476	480	730	760	1400	1700	2300	2400	

> Specification is subject to change without prior notice.

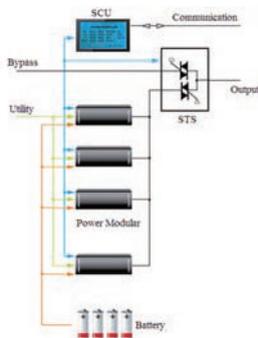
# MR SERIES MODULAR UPS 20-520kVA

MR Series modular UPS20-520kVA is ideal for protecting data centres and telecommunication systems, IT networks and critical systems where poor power quality can lead to a loss of operations and services . The products are with excellent 95% efficiency and high output performance. The system includes power module, STS module and SCU module, all support hot-swap operation, delivering the best combination of reliability, functionality and flexibility.



## TYPICAL APPLICATIONS

- > Data centers
- > Telecom systems
- > Computer rooms
- > Financial systems
- > Precision instruments
- > Intelligent equipments



## SYSTEM WORKING DIAGRAM



## 7 INCH TOUCH SCREEN

MODEL		MR33120	MR33200	MR33260	MR33520
MAXIMUM CAPACITY		120KVA	200KVA	260KVA	520KVA
POWER MODULE	Power Module	MR3320-J (20kVA)			
INPUT	Configuration	3 phase 4 wires + ground			
	Nominal voltage (Vac)	380/400/415 (L-L)			
	Voltage Range (Vac)	285~475 (L-L)			
	Frequency Range	50/60Hz ± 10%			
	PF	≥0.99			
	THDi	≤3%			
	Batteries(VDC)	±360			
OUTPUT	PF	0.8 (0.9/1 optional)			
	Frequency Range	50/60Hz±0.1Hz at battery mode			
	Voltage Stability (Vac)	380/400/415±1%(static) 380/400/415 ±2%(load 0~100%)			
	Transient Recovery Time	20ms (loads 0~100%)			
	Overload	125% loads for 10 minutes, 150% loads for 1 minute			
	Transfer Time	0ms			
	Efficiency	≥ 95 %(A C - A C)			
OTHER	Communication Interface	Dry contact, RS232/RS485			
	SNMP Adapter (optional)	Yes			
	Display	Touch screen + LED			
	Working Temperature	-5°C~40°C			
	Relative Humidity	≤95% No condensation			
	Protection Degree	IP20			
	Approvals	CE (EN 62040-2, IEC 62040-1)			
	Noise	≤60dB	≤65dB		
	Power Module Dimension (WxDxH) (mm)	497×590×133			
	Power module weight (kg)	25.5			
	Cabinet Size (WxDxH) (mm)	600×800 ×1400	600×800 ×2000	1200×800 ×2000	1800×800 ×2000

> Specification is subject to change without prior notice.

# KI SERIES SINE-WAVE LINE INTERACTIVE UPS (1-5kVA)

## MAIN FEATURES

- > Digital technology
- > Intelligent battery charger
- > Reliable online interactive design, with output transformer
- > Intelligent regulation system on utility power voltage
- > Fully functional protection
- > Intelligent RS232 communication port
- > UPS management software (optional)
- > External SNMP or USB or dry contactor (optional)
- > External battery bank (optional)



MODEL		KI1000	KI1000L	KI2000	KI2000L	KI3000	KI3000L	KI5000L	
INPUT	Voltage (Vac)	150-300							
	Frequency (Hz)	50/60 ± 5% (50/60Hz settings)							
OUTPUT	Capacity (VA/W)	1000/700		2000/1400		3000/2100		5000/3500	
	Voltage (Vac)	220/230/240±2% (battery mode)							
	Frequency (Hz)	50 /60± 0.1% (battery mode)							
	Waveform	Pure sine wave, THD < 3%							
	Transfer Time	Typical 4ms (Synchronous switch-over)						Typical 8ms	
	Overload	Utility mode: 150% for 5 minutes, above 200% for 3 seconds Battery mode: 120% for 30 seconds, above 150% for 1 second							
BATTERY	Voltage (Vdc)	24		48		72		48	
	BATT Type	2x7Ah 12V	External	4x7Ah 12V	External	6x7Ah 12V	External	External	
	Charger Current(A)Max	1	10	1	10	1	10	30	
OTHER	Communication Interface	RS232. (Dry contact, USB and SNMP adapter are optional)							
	Display	LED or LCD display operation status of UPS							
	Alarm	Low battery, abnormal AC input, UPS failure							
	Protection	Low battery, overload, short-circuit and over temperature							
	Dimension (WxDxH)	156x450x220			198x525x347			255x590x500	
	Weight (kg)	16	13	35	26	44	30	48	

> Specification is subject to change without prior notice.

# MINI-GUARD SERIES OFF LINE UPS (500-2000VA)

## MAIN FEATURES

- > Advanced digital control technology
- > Streamline, colorful appearance design
- > Comprehensive net equipment protection
- > Green idea environmental design
- > Flexible and practical cold start function
- > Wide voltage range for intellectual regulating (SMART AVR)
- > Intelligent power management (optional)



MODEL		UPS500	UPS700/ UPS700L	UPS1000/ UPS1000L	UPS1600/ UPS1600L	UPS2000/ UPS2000L	SUPS700	SUPS1200	
INPUT	Voltage (Vac)	140~280 / 90~145					190~265		
	Frequency (Hz)	50/60 ± 10%							
OUTPUT	Power (VA/W)	500/300	700/420	1000/600	1600/960	2000/1200	700/420	1200/720	
	Voltage (Vac)	220/230±10% ;110/120±10% (on battery mode)					220/230±10% (on battery mode)		
	Frequency (Hz)	Synchronizing with input AC while it is normal, and 50±0.5% or 60 ± 0. 5% on battery mode							
	Transfer Time	Typical 6ms, including detection time and switching time (Synchronous switch- over)							
	Waveform	Square wave					Pure sine wave		
BATTERY	Voltage (Vdc)	12	12	12/24	36	36/48	24	24	
	BATT Type	1×7Ah	1×7Ah/ External	2×7Ah/ External	3×7Ah/ External	3×9Ah/ External	2×7Ah		
	Charger Current(A)Max	1	1/8	1/6	1/5	1/5	1		
OTHER	Communication Interface	RS232, RJ11 / RJ45 (USB and SNMP adapter are optional)					RS232 (USB, SNMP adapter are optional)		
	Display	LCD display shows status of AC input, inverter, low battery, overload and battery capacity, or LED indicators show status of AC input, inverter, low battery, overload							
	Dimension (W×D×H)	90×325×165/ 120×380×220		120×380 ×220	156×450×220			122×380×170	
	Weight(kg)	6	6.5/8	11.5/9.5	17/13	18.5/15	8	9	

> Specification is subject to change without prior notice.

# DJN SERIES 48VDC INVERTER (1-5kVA)

DJN series inverters adapt to telecom systems with 48VDC power supply, adopting high efficiency SPWM inversion technology. DJN series inverter can be connected to teleprinter, telegraph terminal, wireless paging equipment, data switching exchange, local exchange, microwave communication equipment, program controlled exchange charging system, fax machine and all kinds of AC instrument, computer equipment and various communication equipment. Meanwhile, DJN-K Series inverter «on ECO mode» can be used for air conditioner, such as 3KVA for 1.5P and 5KVA inverter for 3P air conditioner.



DJN-J

## MAIN FEATURES

- > Compliant with communication standard of AC and DC power supply system
- > High performance SPWM inversion technology
- > Wholesome protective measures
- > Low DC end current noise



DJN-K

	MODEL	DJN1000-K / DJN1000-J	DJN1500-K	DJN2000-K / DJN2000-J	DJN3000-K / DJN3000-J	DJN5000-K
INPUT	Voltage (Vdc)	40-60				
OUTPUT	Capacity (VA)	1000	1500	2000	3000	5000
	Power Factor	0.7(0.8 optional)				
	Voltage (Vac)	110/220/230±2%				
	Waveform	Sine wave, THD<3%				
	Frequency (Hz)	50/60±0.5%				
OTHER	Panel Display	LED indicators show status of inverter's operation				
	Protection	Low battery, over voltage, overload, short-circuit and over temperature.				
	Communication Interface	dry contact / RS232	dry contact	dry contact +RS232 / RS232	dry contact +RS232 / RS232	dry contact + RS232
	Dimension (WxDxH) (mm)	440×286×1U / 440×465×2U	440×360×1U	440×350×2U / 440×465×2U	440×350×2U / 440×465×2U	440×440×3U
	Weight (kg)	5/10	6	10/11	10/12	14

> Specification is subject to change without prior notice.

# DJN-P SERIES 48VDC MODULAR INVERTER (3-12kVA)

DJN-P inverters adopting rack imbed design so as to be more slinky and tide ,easy to install 3+1 parallel system for high MPBF, adapt to telecom systems with 48VDC power supply, adopting high efficiency SPWM inversion technology. DJN-P inverter can be connected to teleprinter, telegraph terminal, wireless paging equipment, data switching exchange, local exchange, microwave communication equipment, program controlled exchange charging system, fax machine and all kinds of AC instrument, computer equipment and various communication equipment. DJN-P series parallelable inverter powers, 3+1 for redundancy system being able to supply high-performance uninterrupted AC power for various precision instruments



DJN-P

## MAIN FEATURES

- > Compliant with communication standard of AC and DC power supply system
- > High performance SPWM inversion technology
- > Wholesome protective measures
- > Low DC end current noise

MODEL	DJN3000-P / DJN-S12	
INPUT	Voltage (Vdc)	43-60
	Capacity (VA)	3000 (N+X)
OUTPUT	Power Factor	0.7(0.8 optional)
	Voltage (Vac)	110/220/230±2%
	Waveform	Sine wave, THD<3%
	Frequency (Hz)	50/60±1%
OTHER	Panel Display	LED indicators show status of inverter's operation
	Protection	Low battery, over voltage, overload, short-circuit and over temperature.
	Communication Interface	dry contact + RS232 (system)
	Dimension (WxDxH) (mm)	435×358×2U / 445×335×10U
	Weight (kg)	8.5/15

> Specification is subject to change without prior notice.

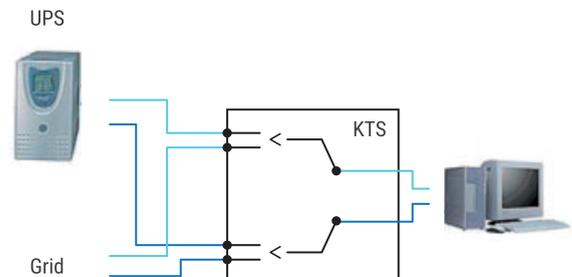
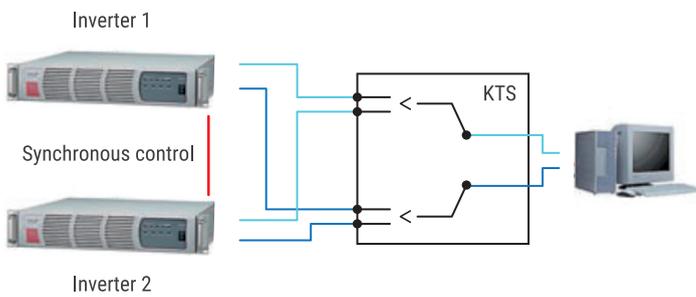
# RACK ATS RACK AUTOMATIC TRANSFER SWITCH

## RACK ATS (1 phase rack automatic transfer switch 10-32A/2-6kVA)



### MAIN FEATURES

- > Dual input route design, Dual AC input are completely isolated
- > Synchronization
- > Flexible control panel location (Front or Rear)
- > It ensures the high MTBF and the system reliability of Inverter system or UPS system



ITEM	KTS010	KTS032
Input voltage (Vac)	110/220±25%	
Input frequency (Hz)	50/60Hz±6Hz	
Rated output capacity 110V	1kVA/0.7kW	3kVA/2.1kW
Rated output capacity 220V	2kVA/1.4kW	6kVA/4.2kW
Overload	125%, not limited; 150%≥60S	
Output voltage (Vac)	110/220±25%	
Transfer time (mS)	6-10	
Dimension(mm)(W×D×H)	440×286×1U	
Weight (kg)	4	

> Specification is subject to change without prior notice.

# STS SYSTEM (63-400A)

## STS System 3 phase static transfer switch 63-400A/40-250kVA

### MAIN FEATURES

- > Strong adaptability for input power
- > Accurate synchronized detection system
- > Human machine interface--Lovely touch screen
- > Your choice for main input power source
- > Perfect protection function
- > Remote monitor via RS485
- > Options - Added-value service

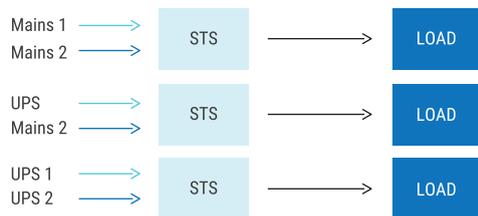


### APPLICATION

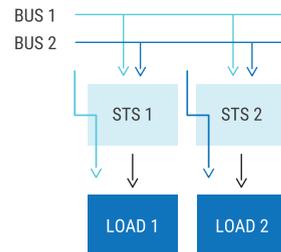
STS is applied for various important power supply environments, such as computer systems, working and fire fighting in buildings, hospitals, malls, hotels, highway, tunnels, subway, light rail, airport, electric power system, finance, telecommunication and so on.

Three common application modes are as below :

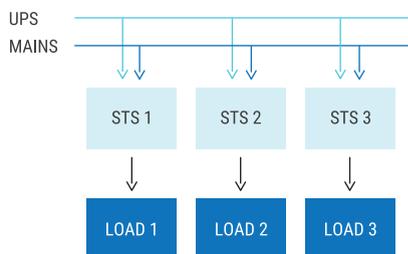
> Dual power supply application



> Dual BUS power supply application



> Concentration power supply application: STS is used for power distribution and increasing the reliability



MODEL		STS33063	STS33100	STS33160	STS33250	STS33400
INPUT	Input source	Two - routes three-phase power sources				
	Input way	3φ+N+PE or 3φ+PE				
	Rated voltage	190/208/220/380/400V/415Vac				
	Rated frequency	50/60Hz				
	Input voltage range	±15%				
	Input frequency range	±10%				
OUTPUT	Current rating	3 phases, 63A per phase	3 phases, 100A per phase	3 phases, 160A per phase	3 phases, 250A per phase	3 phases, 400A per phase
	Overload capacity	<150% With load for long time 150%~170% ,15 minutes ; >170% 1.5 seconds				
	Transfer time	4ms				
	Efficiency (100%linear load)	98%				
OTHER	Synchronization transfer	Representative value : 4ms				
	Synchronization window	±10°				
	Operating temperature	0°C~40°C				
	Humidity	0%~95%(non-condensing)				
	Altitude	≤ 3000m				
	Noise	<55dB				
	Protection level	IP20				
	EMC	Complies with CE(EN / IEC 62040-2)				
	Safety and regulatory	Complies with CE(EN / IEC 62040-1)				
	Dimensions(mm)(W×D×H)	600mm×800mm×1600mm				
	Weight (kg)	125	135	142	146	152
	Alarm	Abnormal AC input, SCR short or open, overloads etc.				
	Protection	Overloads, short circuits ,over temperature, input over/under voltage, input over/under frequency etc.				
Communication	RS485					

> Specification is subject to change without prior notice.

# LI UPS SERIES SINE WAVE LITHIUM BATTERY

## Li UPS Series Sine wave lithium battery UPS (500-3000VA)



Li UPS series is rack-mount UPS combined with Lithium batteries. It is ideal for IT device, telecommunication system, data center, automatic device and those require high quality power protection, supplying reliable power guarantee for your loads. Customization products are available for special requirement. Compared with lead acid battery, the lithium batteries have many advantages such as higher reliability, longer cycling life-time, smaller size and better environmental protection.

### MAIN FEATURES

- > Double outputs: AC output and 48V DC output (long backup time model)
- > Pure sine wave output
- > Low broadband noise current
- > Advanced digital control technique
- > Comprehensive equipment protection
- > Special Lithium battery charger
- > DC cold start and automatic start at low voltage
- > Intelligent power management (optional)
- > External charger (optional)

### APPLICATION

- > IT Device
- > Data Center
- > Telecom system
- > Automatic Device
- > Precision Instrument

	MODEL	UPS500LI-S	UPS1000 LI-S	UPS500LI	UPS1000LI	UPS2000LI	UPS3000LI
INPUT	Voltage (Vac)	220/230 ± 20%					
	Input frequency (Hz)	50/60 ± 10%					
OUTPUT	Power Factor	0.7(0.8 optional)					
	AC Voltage (Vac)	220/230±3% (on battery mode)		220/230±2% (on battery mode)			
	Frequency (Hz)	50/60 ± 0.5%					
	Transfer Time	<10ms					
	Waveform	Pure Sine Wave					
BATTERY	Voltage (Vdc)	24		48			
	BATT Type	10Ah BATT pack with BMS	20Ah BATT pack with BMS	External			
	Charger Current(A)Max	1		4		8	
OTHER	Communication Interface	RS232 and dry contact (SNMP is optional)					
	Display	LED indicators show status of AC input, inverter, low/high battery, fault;					
	Dimension (WxD×H)	440×500×2U		440×320×1U		440×500×2U	
	Weight(kg)	14	16	6		13	

# LI UPS-A SERIES SINE WAVE UPS

## Li UPS-A Series Sine wave UPS (500-3000VA)



Li UPS-A series is rack-mount UPS combined with Lithium batteries, featuring low AC output voltage such as 100/110/120Vac. it is ideal for IT device, telecommunication system, data center, automatic device and those require high quality power protection, supplying reliable power guarantee for your loads. Customization products are available for special requirement. Compared with lead acid battery, the lithium batteries have many advantages such as higher reliability, longer cycling lifetime, smaller size and better environmental protection.

### MAIN FEATURES

- > Double outputs: AC output and 48V DC output
- > Pure sine wave output
- > Low broadband noise current
- > Advanced digital control technique
- > Comprehensive equipment protection
- > Special Lithium battery charger
- > DC cold start and automatic start at low voltage
- > Intelligent power management (optional)
- > External charger (optional)

### APPLICATION

- > IT Device
- > Data Center
- > Telecom system
- > Automatic Device
- > Precision Instrument

	MODEL	UPS500LI-A	UPS1000LI-A	UPS2000LI-A	UPS3000LI-A
INPUT	Voltage (Vac)	100/110/120 ± 15%			
	Input frequency (Hz)	50/60 ± 10%			
OUTPUT	Power Factor	0.7(0.8 optional)			
	AC Voltage (Vac)	100/110/120±2%(on battery mode)			
	Frequency (Hz)	50/60 ± 0. 5%			
	Transfer Time	<10ms			
	Waveform	Pure Sine Wave			
BATTERY	Voltage (Vdc)	48			
	BATT Type	External			
	Charger Current(A)Max	4		8	
OTHER	Communication Interface	RS232 and dry contact(SNMP is optional)			
	Display	LED indicators show status of AC input, inverter, low/high battery, fault;			
	Dimension (WxD×H)	440×400×1U		440×500×2U	
	Weight (kg)	5.5		11.2	

> Specification is subject to change without prior notice.

# ZL SERIES 240VDC POWER SYSTEM

## MAIN FEATURES

- > Intelligent DSP control
- > Touch screen interface
- > Modular N+1 design for easy expansion
- > Hot-swappable modules ensure quick and online maintenance
- > Intelligent alternately working modules
- > PFC technology for high power factor 0.99 and low THDi  $\leq 5\%$
- > DC power application with high efficiency  $\geq 95\%$
- > Flexible communication management: CAN bus and RS485 port
- > ECO mode and temperature compensation (Optional)
- > Voltage/current/capacity is adjustable (Optional)
- > Multiple monitor modules are available (Optional)

## APPLICATION

- > IDC data center
- > Mobile communication data center
- > Banks
- > 3G, 4G base station
- > Other equipments with 240VDC power source



MODEL		ZL304-G400	ZL304-G600	ZL304-G800	ZL304-G1200	ZL304-G1600
INPUT	Rated Voltage (Vac)	260~530(>304Vac 100% load)				
	THDu	≤5%				
	THDi	≤3%(100% load), ≤5%(50% load)				
	PF	≥0.99				
	Frequency (Hz)	40-66				
	Wires	3 phase 3 wires+ground				
	Battery capacitor applicable	100AH~2000AH				
OUTPUT	Voltage (VDC)	240				
	Voltage (VDC)	180~300 adjustable				
	Current (A)	400	600	800	1200	1600
	Current limit	rated current×(20% ~110%)				
	Voltage regulation	≤±0.2%				
	Current regulation	≤±1.0%				
	Ripple	≤±0.13%				
	Efficiency	≥94.5%				
	Parallel performance	≤±1%				
	Charger	Boost and floating (manually and automatically)				
OTHER	Insulation monitor	DC BUS and DC circuit				
	Insulation resistor (MΩ)	≥10				
	Insulation grade	Output to ground, input to ground, input to output with 2.5kVAC, no arc in 1 minute				
	Alarm	Battery fault, insulation fault, AC fault, output fault, modular fault, system modular				
	IP grade	IP20				
	Display	LCD				
	Noise (dB)	≤60dB				
	Protection	AC over voltage, sag, DC output over voltage, protection for input phase missing, over load protection, DC output over current protection, protection for short circuit, over temperature protection				
	Cooling	Fans (speed adjustable)				
	Size(mm)(W×D×H)	800×800×2000	2000×600×2000	2600×600×2000		3200×600×2000
	Weight (kg)	400	660	920	1080	1360

> Specification is subject to change without prior notice.





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