

CROWN

MICRO

Carry On

600VA~3000VA

Line Interactive UPS with Battery

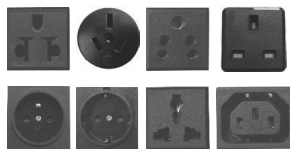


Features

- LED display or LCD display selectable
- Microprocessor-based digital control
- Boost and buck AVR for voltage stabilization
- Auto sensing frequency
- Wide input voltage range
- Power-on self test
- Cold start
- Auto restart when mains power is restored
- Auto track mains phase to ensure that inverter output voltage has same phase with utility voltage, reducing transfer time and peak surge
- Intelligent battery management: battery temperature compensation to extend the battery life; three-stage charging to shorten recharge time
- Short circuit, battery overcharge / overdischarge, overload, surge protections
- Automatic charging in OFF mode
- Optional no-load shutdown
- Optional RS232 / USB communication port and RJ11 / RJ45 protection
- Unattended safety shutdown: system alarm and auto Power-On / Off by RS232 or USB interface communicating with PC

Rear Panel

1. Output Outlets
2. TEL/Modem/Fax surge protection (optional) (selectable)
3. USB (optional)
4. AC Input
5. Fuse
6. AC Breaker
7. Fan



Optional outlets

AVR

AUTOMATIC
VOLTAGE
REGULATION



COOL
START



SHORT
CIRCUIT
PROTECTION



BATTERY
OVERCHARGE
PROTECTION



SURGE
PROTECTION



NETWORK
PROTECTION

Specifications

Model	CMUX-650	CMUX-650D	CMUX-750D	CMU-850D
Rated power	600VA/360W Plastic Case	650VA/390W Plastic Case	700VA/420W Metal Case	850VA/480W Metal Case
Input				
Voltage range	100 / 110 / 120 Vac: 80 - 150 Vac; 220 / 230 / 240 Vac: 162 - 295 Vac / 145 - 295 Vac			
Frequency range	50 / 60 Hz (auto-sensing)			
Output				
Output voltage (battery mode)	100 / 110 / 120 Vac \pm 10% or 220 / 230 / 240 Vac \pm 10%			
Output frequency (battery mode)	60 Hz / 50 Hz \pm 1% (auto-sensing)			
Waveform	Mains mode: pure sine wave; Battery mode: simulated sine wave			
Switching time	8 ms (typical), 10 ms (max.)			
Batteries				
Model & numbers	12V/7Ah \times 1	12V/7Ah \times 1	12V/7Ah \times 1	12V/9Ah \times 1
Recharge time	6 ~ 8 h			
Others				
Operating temperature	0 - 40°C			
Relative humidity	5 - 90%			
Packing Per Ctn	4 PCS	4 PCS	3 PCS	3 PCS
Weight	NW : 17.2KG , GW : 20KG	NW : 17.2KG , GW : 20KG	NW : 17.2KG , GW : 20KG	NW : 18KG , GW : 21KG
Dimension (L*W*H)	57.50- 33.50 - 22.50	57.50- 33.50 - 22.50	45.30- 38.70 - 24.50	45.30- 38.70 - 24.50

Specifications

Model	CMU-1000D	CMUX-1200	CMUX-1500
Rated power	1000VA/600W Metal Case	1200VA/720W Plastic Case	1500VA/900W Plastic Case
Input			
Voltage range	100 / 110 / 120 Vac: 80 - 150 Vac; 220 / 230 / 240 Vac: 162 - 295 Vac / 145 - 295 Vac		
Frequency range	50 / 60 Hz (auto-sensing)		
Output			
Output voltage (battery mode)	100 / 110 / 120 Vac \pm 10% or 220 / 230 / 240 Vac \pm 10%		
Output frequency (battery mode)	60 Hz / 50 Hz \pm 1% (auto-sensing)		
Waveform	Mains mode: pure sine wave; Battery mode: simulated sine wave		
Switching time	8 ms (typical), 10 ms (max.)		
Batteries			
Model & numbers	12V/7Ah \times 2	12V/7Ah \times 2	12V/9Ah \times 2
Recharge time	6 ~ 8 h		
Others			
Operating temperature	0 - 40°C		
Relative humidity	5 - 90%		
Packing Per Ctn	3 PCS	2 PCS	2 PCS
Weight	NW : 18KG , GW : 21KG	NW : 8.6KG , GW : 9KG	NW : 10.1KG , GW : 10.5KG
Dimension (L*W*H)	45.30 - 38.70 - 24.50	41.90 - 40.90 - 26.50	41.90 - 40.90 - 26.50



Specifications

Model	CMU-1200D	CMU-1500D	CMU-2000D	CMU-3000D
Rated power	1200VA/720W Metal Case	1500VA/900W Metal Case	2000VA/1200W Metal Case	3000VA/1800W Metal Case
Input				
Voltage range	100 / 110 / 120 Vac: 80 - 150 Vac; 220 / 230 / 240 Vac: 162 - 295 Vac / 145 - 295 Vac			
Frequency range	50 / 60 Hz (auto-sensing)			
Output				
Output voltage (battery mode)	100 / 110 / 120 Vac \pm 10% or 220 / 230 / 240 Vac \pm 10%			
Output frequency (battery mode)	60 Hz / 50 Hz \pm 1% (auto-sensing)			
Waveform	Mains mode: pure sine wave; Battery mode: simulated sine wave			
Switching time	8 ms (typical), 10 ms (max.)			
Batteries				
Model & numbers	12V/7Ah \times 2	12V/9Ah \times 2	12V/9Ah \times 2	12V9Ah \times 4
Recharge time	6 ~ 8 h			
Others				
Operating temperature	0 - 40°C			
Relative humidity	5 - 90%			
Packing Per Ctn	2 PCS	2 PCS	2 PCS	1 PCS
Weight	NW : 21KG , GW : 23.2KG	NW : 25.2KG , GW : 27.6KG	NW : 26KG , GW : 27KG	NW : 20KG , GW : 21KG
Dimension (L*W*H)	40.20 - 37.50 - 31.00	40.20 - 37.50 - 31.00	45.80 - 37.00 - 31.00	55.00 - 23.80 - 29.50

Note: The specification listed above is subject to change without notice.

CROWN

MICRO

Carry On

CMU-SP800

EURO USB

UNINTERRUPTIBLE POWER SUPPLY

800VA/480W

LINE INTERACTIVE



Features

- Power 800VA/480W
- Euro (schuko) sockets • 4 pcs
- IEC-320 C13 Bypass • 1 pcs
- Metal case
- LED display
- AVR function
- Short circuit protection
- Overload protection;
- High/Low battery power protection
- Protecting the telephone and Internet lines
- Management via IJSB connection
- Output noises filter function
- Cool start function
- Removable cord 1.8m



INDICATORS
ALARM



COLD
START

AVR

AUTOMATIC
VOLTAGE
REGULATION



SURGE
PROTECTION



TEL LINE
and NETWORK
PROTECTION



USB Type - B

METAL
CASE

Specifications

Model	CMU-SP800EURO USB	
Technology	Type of UPS	Line Interactive
Execution	Form factor	Floor (Tower)
Input parameters	Capacity	800 VA / 480 W
	Input voltage	220/230/240V
	Input voltage range	140 – 290 V
	Current frequency	50/60 Hz ± 1% (automatic detection)
Output parameters	Output voltage	220/230V ± 10%
	Voltage form	Step Approximation of Sine Wave
	Current frequency	50/60 Hz ± 1%
	Switching time	2-4 ms, including detection time
	Automatic voltage adjustment (AVR)	1 step down, 2 steps up
UPS and equipment protection	Surge Protection	Yes
	UPS overload protection	Load ≤ 120%, frequent beep; 120%, the output power will automatically turn off, the speaker will begin to continuously signal
	UPS input protection	Fuse for protection against overload and short circuit
	UPS short circuit protection	Immediate shutdown of the UPS using the input fuse
	Protect your phone, fax, modem, LAN	1 x RJ-11/45
	Monitor and control UPS from PC	USB port x 1
Accumulator battery	Type	Lead acid, sealed, maintenance free
	Battery voltage and capacity	12V9AH x 1
	Typical recharge time	8 hours (up to full battery capacity)
	Approximate battery back up time (at 50% load)	8,00 min
	Approximate battery back up time (at 100% load)	1,00 min
	Cold start	Yes
	Battery protection	Automatic battery check at power on and protection against critical discharge
Physical parameters	Output connectors	4 x EURO with backup power and filtering 1 x IEC-320 C13 Bypass
	Dimensions (W*D*H), mm	125x320x225 (Packing per box 3PCS)
	Net weight, kg	6,8
	Indication	LED (green diode - power from the input network, yellow diode - work in battery mode, red diode - overload or fault)
	Sound alarm	Standby mode - a rare beep (1 time in 5 seconds, then repeat every 60 seconds); low charge - frequent beep (last 16 seconds); overload - a very private beep (every 2 seconds)
Case features	Case material	Metal (0.5 mm thick)
Connection to the input mains	Power cord	Removable with EURO plug (length 1.8 m)
Environmental parameters	Acoustic noise	< 35 dB (1 meter from the surface)
	Working conditions	Humidity 0% -90% Non-condensing, temperature: 0 ~ 40 °C
Warranty	Standard warranty	1 year

CROWN

MICRO

Carry On

10 kVA ~ 30 kVA
(3:3)
PF1 .0

C M U - K V A D S Series
Short Backup with Battery Space

Features

- Advanced dual-core DSP control technology and 3-level technology
- Active power factor correction (APFC), input power factor up to 0.99
- System efficiency is improved to 95%, energy saving rate is doubled
- Output power factor 1.0
- Dual input design, supporting independent bypass
- Advanced digital and parallel technology, providing higher reliability than single system
- Wide input voltage range
- 50 / 60 Hz auto-sensing frequency
- 50 / 60 Hz frequency conversion mode
- Work efficiency up to 98% in ECO mode
- Fan speed varies intelligently with load, reducing noise and extending its service life
- Conformal coating technology to make UPS operate in harsh environment for a long time
- Flexible battery configuration setting, selectable battery numbers: 32~ 40 pcs
- Digitally controlled charger (Max.10 A & 20% output power)
- Ability to switch on the UPS by battery in the absence of mains power (Cold start)
- Zero switching time for UPS power supply mode when the mains power is unstable, ensuring the output is uninterrupted
- Compact internal layout, small footprint
- 5 inches LCD colorful touch screen, friendly human & machine interface
- Powerful background software for parameters configuration and online upgrade
- Advanced multi-platform communication for UPS monitoring: RS232,USB,RS485,dry contacts, SNMP card,Wi-Fi card and GPRS card
- Linear derating in low voltage input, reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic equalized and float charging control, charger dormancy control, improving the reliability of charger and extending the battery life
- Effective hardware and software protection, robust self-diagnosis function, abundant event log for future check
- Standard RS232,USB,RS485,EPO,Dry contacts,Parallel port
- Optional SNMP card,WI-FI card,GPRS card, SMS alarms



Specifications

MODEL	10 kVA	15 kVA	20 kVA	30 kVA
Capacity	10 kVA / 9 kW	15 kVA / 13.5kW	20 kVA / 18 kW	30 kVA / 27 kW
INPUT				
Nominal voltage	360 V / 380 V / 400 V / 415 Vac three-phase (3Φ+N+PE)			
Voltage range	277 ~ 485 Vac (no derating) 190 ~ 277 Vac (linear derating between 50% and 100% load)			
Rated frequency	50 / 60 Hz (auto-sense)			
Frequency range	40 ~ 70 Hz			
Power factor	≥ 0.99			
Bypass voltage range	-40% ~ +15% (settable)			
OUTPUT				
Nominal voltage	360V / 380V / 400V / 415 Vac three-phase (3Φ + N + PE) (settable)			
Voltage regulation	± 1%			
Frequency	Synchronized with utility in utility mode; 50 / 60 ± 0.1 Hz in battery mode			
Power factor	0.9			
Crest factor	3:1			
Total harmonic distortion (THDV)	≤ 2% (linear load); ≤ 5% (non-linear load)			
Transfer time	Mains mode to battery mode: 0 ms; Inverter mode to bypass mode: 0 ms			
Inverter overload capability	102% ~ 125%: transfer to bypass in 10 min; 125% ~ 150%: transfer to bypass in 1 min; > 150%: transfer to bypass in 0.5 s			
BATTERY				
DC voltage	Standard model: 240 Vdc; Long time model: 192 Vdc (168V / 192 V / 216 V / 240V optional)			

Inbuilt battery of standard model	20 * 7 Ah	40 * 7 Ah	40 * 9 Ah	60 * 9 Ah
SYSTEM				
Efficiency	Line mode: ≥ 93%; ECO mode: ≥ 98			
Display	LCD + LED			
Alarm	Battery mode, low battery, fans fault etc.			
Max. parallel numbers	6			
Protections	Short-circuit – overload – overtemperature – low battery – overvoltage – undervoltage – fans fault			
Communications	RS232 / USB / EPO (standard) ; RS485 / AS400 / SNMP (optional)			
OTHERS				
Operating temperature	0 ~ 40°C			
Relative humidity	< 95% (non-condensing)			
Noise level	≤ 60 dB (1m)	≤ 65 dB (1 m)		
IP rating	IP 20			
Dimensions (W * D * H) (mm)	350 × 655 × 732 (H)			
	350 × 785 × 858 (S)	350 × 785 × 1078 (S)		
Packaged dimensions (W * D * H) (mm)	472 × 780 × 920 (H)			
	472 × 910 × 1050 (S)	472 × 910 × 1260 (S)		
Net weight (kg)	55 (H), 110 (S)	60 (H), 155 (S)	61 (H), 175 (S)	65 (H), 235 (S)
Gross weight (kg)	65 (H), 125 (S)	70 (H), 170 (S)	71 (H), 190 (S)	75 (H), 250 (S)

H means Long time model w/o inbuilt battery; S means Standard model with inbuilt battery. Derate capacity to 90% when the output voltage is adjusted to 360 Vac.

10 kVA ~ 20 kVA
(3:1 / 1:1)
PF1.0

CMU-KIS & KVADL SERIES Short Backup with Battery Space

Features

- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- 3:1 to 1:1 model settable
- Wide input voltage range (190 ~ 499 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 10 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery

- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%
- Ability to switch on the UPS with batteries
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check

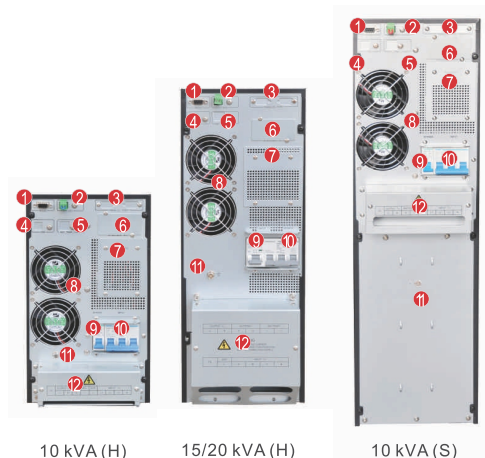
Available Options

- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms



Rear Panel

1. RS232
2. EPO
3. Parallel Port (optional)
4. USB (optional)
5. Temperature Detection (optional)
6. Intelligent Slot
7. Reserved: for manual bypass or battery breaker or outlets ect.
8. Fans
9. Bypass Breaker
10. Input Breaker
11. GND
12. Terminals and Cover



Specifications

1. General Specification

Model		6KVA	10KVA	15KVA	20KVA
Power Rating		PF=1, kW=kVA			
Frequency (Hz)		50/60			
Input	Voltage	304 ~ 478 Vac (Line-Line) at full load; 190~304Vac (Line-Line), load decrease linearly according to the min phase voltage			
	Current	12A / 380 V	20 A / 380 V	30 A / 380 V	40 A / 380 V
Battery	Voltage	192 Vdc			
	Current	Max. 40A	Max. 67 A	Max. 100 A	Max. 134 A
Output	Voltage	L-N 220 Vac / 230 Vac / 240 Vac			
	Current	27 A	45.5A	68 A	91 A
Efficiency		Max. 94.5%		Max. 95%	
Dimension (W x D x H) (mm)		191 * 495 * 350 191 * 495 * 711	191 * 495 * 350 191 * 495 * 711	191 * 495 * 515	191 * 495 * 515
Weight (kg)		18.5/64	18.5/64	26.5	26.5

2. Electrical Performance

Input			
Model	Voltage	Frequency	Power Factor
UPS	Single-phase	40 – 70 Hz	> 0.99 (Full load)

Output					
Voltage Regulation	Power Factor	Frequency tolerance.	Distortion	Overload capacity	Crest ratio
1%	1	0.1 of normal	THD < 1% Full load (Linear Load)	110% load: transfers to Bypass mode after 60 minutes 130% load: transfers to Bypass mode after 1 minute 150% load: transfers to Bypass mode after 0.5 minute and shutdown the output after 1 minute	3:1 maximum

3. Operating Environment

Temperature	Humidity	Altitude	Storage temperature
0 C - 40 C	< 95%	< 1000 m	0 C - 70 C

NOTICE: If the UPS is installed or used in a place where the altitude is above than **1000 m**, the output power must be derated in use, please refer to the following:

Altitude (M)	1000	1500	2000	2500	3000	3500	4000	4500	5000
Derating Power	100%	95%	91%	86%	82%	78%	74%	70%	67%

CROWN

MICRO

Carry On

6 kVA ~ 10 kVA

PF 1.0

RACK MOUNT SERIES

Features

- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- Wide input voltage range (110 ~ 288 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Hot-swappable battery
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 12 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%



- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, robust abundant event log for check

Available Options

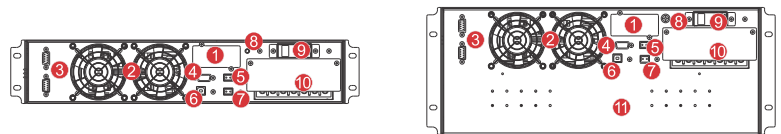
- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

Rear Panel

1. SNMP (optional)
2. Fans
3. Parallel (optional)
4. RS232
5. EPO
6. USB (optional)
7. Temperature Compensation (optional)
8. GND
9. Bypass Breaker
10. Terminal and Cover
11. Battery Pack

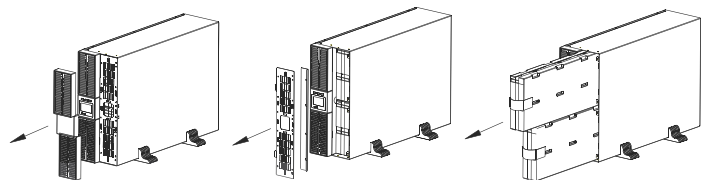


Display panel can be rotated



6/10KVA(H)

6/10KVA(S)



Easy for maintenance, hot-swappable battery

Specifications

1. General Specification

Model		6KVA(1/1)	10KVA(1/1)	6KVA(3/1)	10KVA(3/1)
Power Rating		PF=1, kVA=kW			
Frequency (Hz)		50 / 60			
Input	Voltage	L-N(176 - 288) Vac		L-L(304-478) Vac	
	Current	Max. 36 A	Max. 60 A	Max. 12A	Max. 20 A
Battery	Voltage	192 Vdc			
	Current	Max. 40 A	Max. 67 A	Max. 40A	Max. 67 A
Output	Voltage	220(default) / 230 / 240Vac			
	Current	27 A	45.5A	27 A	45.5A
Efficiency		Max. 94.5%	Max. 95%	Max. 94.5%	Max. 94.5%
Dimension (W x D x H) (mm)		440 * 88 *580(H) 440 * 176 *660(S)		440 * 88 *650(H) 440 * 176 *660(S)	
Weight (kg)		12(H)/58(S)	14(H)/63(S)	17(H)/63(S)	17(H)/67(S)

2. Electrical Performance

Input			
Model	Voltage	Frequency	Power Factor
UPS	Single-phase	40 - 70 Hz	> 0.99 (Full load)

Output					
Voltage Regulation	Power Factor	Frequency tolerance.	Distortion	Overload capacity	Crest ratio
±1%	1	±0.1 of normal	THD < 1% Full load (Linear Load)	110% load: transfers to Bypass mode after 60 minutes 125% load: transfers to Bypass mode after 1 minute 150% load: transfers to Bypass mode after 0.5 minute and shutdown the output after 1 minute	3:1 maximum

3. Operating Environment

Temperature	Humidity	Altitude	Storage temperature
0°C - 40°C	< 95%	< 1000 m	0°C - 70°C

NOTICE: If the UPS is installed or used in a place where the altitude is above than **1000 m**, the output power must be derated in use, please refer to the following:

Altitude (M)	1000	1500	2000	2500	3000	3500	4000	4500	5000
Derating Power	100%	95%	91%	86%	82%	78%	74%	70%	67%

CROWN

MICRO

Carry On

6 kVA ~ 10 kVA PF 1.0

CMU-KVADS - CMUKVADL - KIS- SERIES Short & Longbackup UPS



Features

- Advanced DSP and 3-level technology
- Output power factor 1.0
- Active power factor correction (APFC), input power factor up to 0.99
- High efficiency 95% (up to 98% in ECO mode)
- Advanced digital parallel technology
- Wide input voltage range (110 ~ 288 Vac) and frequency range (40 ~ 70 Hz)
- 50 / 60 Hz frequency auto sensing
- Two modes of frequency conversion: 50 Hz input / 60 Hz output or 60 Hz input / 50 Hz output
- Dual-input design, supporting independent bypass
- Flexible battery configuration (settable 16 - 20 pcs batteries)
- Digitally controlled charger
- High charging current available (Max. 12 A)
- Charging voltage and current configured by demands
- Linear derating in low voltage input reducing battery discharging times, extending the service life of battery
- Intelligent battery management, automatic floating / equalizing charge control, charger dormancy control, increasing battery life by 50%

- Ability to switch on the UPS with batteries
- Settable delayed start time when mains power is restored, reducing the impact on power grid or generator
- Fan speed varies intelligently with temperature, reducing noise and extending its service life
- Equipped with self-aging function
- Compact internal layout, miniaturized the complete unit for small footprint
- LCD+LED display, multi-functional keys operation, friendly human-machine interface
- Powerful background software for parameters configuration
- Advanced multi-platform communications: RS232, USB, RS485, SNMP and dry contacts communication interfaces
- Effective software and hardware protection function, robust self-diagnostic function, and abundant event log for check

Available Options

- RS232 and smart card slot included
- Optional parallel function, battery temperature compensation, SNMP card, USB, RS485 card, dry contacts, EMD, and SMS alarms

Rear Panel

1. RS232
2. EPO
3. Parallel Port (optional)
4. USB (optional)
5. Temperature Detection (optional)
6. Intelligent Slot
7. Reserved: for manual bypass or battery breaker or outlets ect.
8. Fans
9. Bypass Breaker
10. Input Breaker
11. GND
12. Terminals and Cover



6/10 kVA (H)

6/10 kVA (S)

Specifications

1. General Specifications

Model		6KVA	10KVA	15KVA	20KVA
Power Rating		PF=1, kVA=kW			
Frequency (Hz)		50 / 60			
Input	Voltage	(176 - 288) Vac			
	Current	Max. 36 A	Max. 60 A	Max. 90 A	Max. 120 A
Battery	Voltage	192 Vdc			
	Current	Max. 40 A	Max. 67 A	Max.100 A	Max.134A
Output	Voltage	220(default) / 230 / 240Vac			
	Current	27 A	45.5A	68 A	91 A
Efficiency		Max. 94.5%	Max. 95%		
Dimension (W x D x H) (mm)		191 * 465 * 350 191 * 465 * 711	191 * 495 * 350 191 * 495 * 711	191 * 495 * 515	191 * 495 * 515
Weight (kg)		14.5/53	16.5/62	26.5	26.5

2. Electrical Performance

Input			
Model	Voltage	Frequency	Power Factor
UPS	Single-phase	40 - 70 Hz	> 0.99 (Full load)

Output					
Voltage Regulation	Power Factor	Frequency tolerance.	Distortion	Overload capacity	Crest ratio
1%	1	0.1 of normal	THD < 1% Full load (Linear Load)	110% load: transfers to Bypass mode after 60 minutes 125% load: transfers to Bypass mode after 1 minute 150% load: transfers to Bypass mode after 0.5 minute and shutdown the output after 1 minute	3:1 maximum

3. Operating Environment

Temperature	Humidity	Altitude	Storage temperature
0 C - 40 C	< 95%	< 1000 m	0 C - 70 C

NOTICE: If the UPS is installed or used in a place where the altitude is above than **1000 m**, the output power must be derated in use, please refer to the following:

Altitude (M)	1000	1500	2000	2500	3000	3500	4000	4500	5000
Derating Power	100%	95%	91%	86%	82%	78%	74%	70%	67%

CROWN

MICRO

Carry On

1 kVA ~ 3 kVA

PF 0.9

CMU-KVADS - CMUKVADL - KIS- SERIES

Short & Longbackup UPS

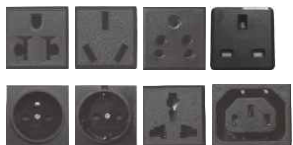


Features

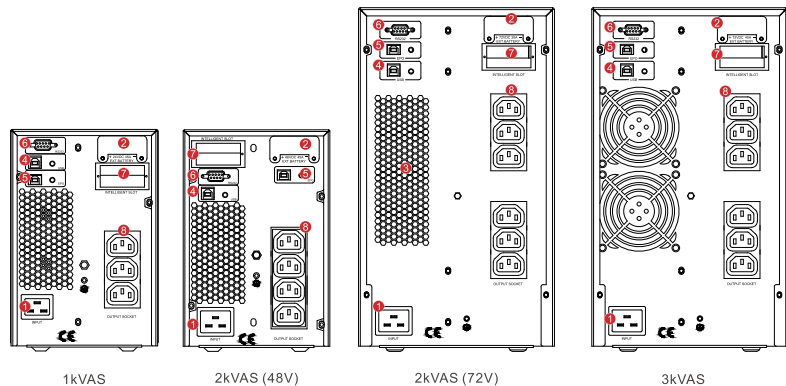
- High frequency on-line double conversion technology
- DSP (Digital signal processors) control technology
- Active power factor correction (APFC), input power factor up to 0.99
- Output power factor 0.9
- Wide input voltage range (110 V ~ 300 Vac) and frequency range (40 ~ 70 Hz)
- Auto sensing frequency
- 50 / 60 Hz frequency conversion
- Cold start
- Rear ventilation design and variable speed fan
- Effective software and hardware protection
- Quick and stable charging, 90% capacity restored in 4h (standard model UPS)
- Linear derating in low voltage input reducing battery discharging times
- Settable delayed start when power is restored
- Advanced battery management (ABM)
- Multiple functions settable via LCD: output voltage, EOD, auto-start, bypass mode, ECO mode and frequency conversion mode
- Multi-platform communications: RS232 (standard), USB / RS485 / SNMP / dry contacts (optional)
- Optional USB, RS485 card, AS400 dry contacts, SNMP card, SMS alarms, EPO function, and 12 A charger (2/3 kVA only)

Rear Panel

1. AC input socket
2. Battery connector (Optional)
3. Fan
4. USB (Optional)
5. EPO (Optional)
6. RS232
7. Intelligent slot (Optional)
8. Output sockets



Optional outlets



Specifications

Model	1kVA-S	1kVA-L	2kVA-S	2kVA-L	3kVA-S	3kVA-L
Rated Capacity	1 kVA / 900 W		2 kVA / 1800 W		3 kVA / 2700 W	
Input						
Rated input voltage	208 Vac / 220 Vac / 230 Vac / 240 Vac					
Rated input frequency	50 Hz / 60 Hz (auto-sense)					
Input voltage range	110 ~ 176 Vac (power derating linearly between 50% and 100% load); 176 ~ 280 Vac (no derating); 280 ~ 300Vac (power derating 50%)					
Input frequency range	40 ~ 70 Hz					
PFC	≥ 0.99					
THDI	≤ 6%					
Bypass voltage range	-25% ~ + 15% (settable)					
Output						
Output voltage	208 Vac / 220 Vac / 230 Vac / 240 Vac (settable)					
Voltage accuracy	± 1%					
Output PF	0.9					
Inverter overload capability	105% ~ 125% load: transfer to bypass in 1 min; 125% ~ 150% load: transfer to bypass in 30 s; > 150% load: transfer to bypass in 300 ms;					
Load crest	3:1					
From mains mode to BAT mode	0 ms (transfer time)					
From mains mode to bypass	≤ 4 ms					
Efficiency	Line mode	90%	91%	92%		
	BAT mode	85%	86%	87%		
	ECO mode	95%	96%	97%		
Output frequency	Line mode	Same as input frequency				
	BAT mode	(50 / 60 ± 0.1) Hz				
Total voltage harmonic distortion	≤ 2% (linear load); ≤ 5% (non-linear load)					
Batteries						

Note: The specification listed above is subject to change without notice.

Battery type	Sealed lead acid maintenance free battery								
DC voltage	24 V	36 V	36 V	48 V	72 V	72 V	72 V	96 V	96 V
Inbuilt battery	9 AH 12 V	7 AH 12 V	/	9 AH 12 V	7 AH 12 V	/	9 AH 12 V	7 AH 12 V	/
Quantity	2	3	3	4	6	6	6	8	8
Charger output voltage	27.1 ± 0.4	40.7 ± 0.6	40.7 ± 0.6	54.2 ± 0.8	81.3 ± 1.2	81.3 ± 1.2	81.3 ± 1.2	108.4 ± 1.6	108.4 ± 1.6
Recharging time	Recover 90% capacity in 3 hours for standard models								
Charging current (Max.)	Standard model: 1 A Long time model: 6 A / 3 A								
System Control and Communications									
Protections	Over-temp protection; Fan testing protection; Overload protection; Output short circuit protection; Battery discharge protection								
Communication port	Standard: RS232; Options: USB, SNMP card, dry contacts								
Display	LCD								
Environmental									
Operating humidity	0 ~ 90 % RH @ 0 ~ 40°C (non -condensing)								
Storage temperature	-25°C ~ 55°C(exclude batteries)								
Operating altitude	≤ 1000m, above 1000m, derate 1% for each rising 100m								
Protection class	IP 20								
Noise level	≤ 50 dBA (at 1m)								
Others									
Dimensions (mm)	144*336	144*414	144*336	191*418	191*418	191*418	191*418	191*464	191*418
W ×D×H	*214	*214	*214	*335	*335	*335	*335	*335	*335
Weight (kg)	9.5	13	6	18	25.8	10.5	27.2	32	11

* Derate capacity to 70% in CUCF mode and to 90% when the output voltage is adjusted to 208Vac.

Note :

Model	Type	Model	Type
1kVAS	1kVA Standard model	1kVAH	1kVA Long backup model
2kVAS	2kVA Standard model	2kVAH	2kVA Long backup model
3kVAS	3kVA Standard model	3kVAH	3kVA Long backup model