

UNINTERRUPTIBLE POWER SUPPLY

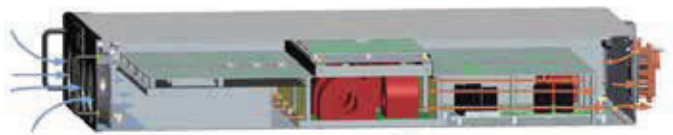
CANRM SERIES

MODULAR ONLINE UPS 25-600KVA (380V/400V/415V)

The CANRM series modular UPS provides the most compact footprint of less than 2 m² with maximum capacity of 900kVA. With best reliability and high performance, it has been leading the domestic market for years.

CANRM series is considered to be the best power protection solution for large data centers, as well as for sensitive electronics.

- **Modular design**
Up to 25/30 power modules in parallel online hot-swappable N+X redundancy
- **Independent charger**
Independent charger for each module and intelligently control the whole charging process, prolong the life time of the battery
- **Battery cold start**
Independent charger for each module and intelligently control the whole charging process, prolong the life time of the battery
- **Easy connection access**
Top and bottom cable entry connection are supported, more convenient for site installation
- **Modular design with transformer**
Modular UPS up to 60kVA with in-built isolation transformer, meeting different requirement for customers
- **High power density**
200kVA with footprints of about 0.5m², saving valuable data center space
- **Integrated IGBT design**
Integrated IGBT in one module, less failure points with higher performance and reliability
- **Friendly interface**
Touch LCD display with abundant information
- **Independent air channel**
Cooling air runs in isolated channel, keeping PCB free of dust



Isolated Air Flow

The dedicated and redundant hot-swappable power modules take the most unique structure design. In this design, the PCB boards and heat-sinkers are in two completely different layers, which allows the UPS run in dusty environments, significantly improving its stability and environmental adaptability.

- Cooling air flows in the lower layer, keeping the upper PCB free of dust
- One air flow channel ensures fans redundancy, even one fan fails, power module can run normally

High Density ,Modular, Scalable

- High power density, footprint for 300kVA is 0.66m², power density 409kW/m², saving valuable data center space
- Scalable from 30kVA to 900kVA, max 30 power modules in parallel



Three units in parallel

- Inherently N+X redundant
- Hot swappable power module and bypass & monitoring module
- Additional charging module, extra charging current 50A×N for long time back up application



Bypass & Monitoring module



Power module



Specification

MODEL		CAN RM600-30X	CAN RM300-30X	CAN RM180-30X	CAN RM500-25X	CAN RM250-25X	CAN RM150-25X	
System Capacity		600kVA	300kVA	180kVA	500kVA	250kVA	150kVA	
Power Module Capacity		30kVA/30kW			25kVA/25kW			
Input	Dual Input	Optional						
	Phase	3 Phase+Neutral+Ground, 380V/400V/415V (line-line)						
	Input Voltage Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min phase voltage						
	Rate Frequency	50/60Hz						
	Input Frequency Range	40Hz~70Hz						
	Input PF	>0.99						
	Input THDi	<3% (100% Linear load)						
Bypass	Rate Voltage	380/400/415Vac (line-line)						
	Rate Frequency	50/60Hz						
	Input Voltage Range	Settable, -40%~+25%						
	Bypass Frequency Range	Settable, ±1Hz, ±3Hz, ±5Hz						
	Bypass Overload	110% long term operation; 125% for 5 mins; 150% for 1 min						
Output	Rate Voltage	380/400/415Vac (line-line)						
	Voltage Regulation	1% for balance load; 1.5% for unbalance load						
	Rate Frequency	50/60Hz						
	Frequency Precision	0.1%						
	Output PF	1						
	Output THDu	<1% , Linear load; <5.5%, Non-linear load						
	Crest Factor	3:1						
	Inverter Overload	110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms						
Battery	Voltage	±240Vdc						
	Battery Number	40pcs (Settable: even number from 32 to 44)						
	Voltage Precision	±1%						
	Charge Power	up to 20% * Output active power						
	Battery Cold Start	Standard						
System	Efficiency	AC Mode	95.0%					
		ECO Mode	99.0%					
		Battery Mode	95.0%					
	Display	10.4" color touch screen LCD + LED + keyboard						
	IP Class	IP 20						
	Interface	RS232, RS485, Programmable Dry Contact, USB						
	Option	SNMP Card, Parallel kit, SPD, LBS, Dust filter, Expansion dry contact card						
	Temperature	Operation: 0~40 °C Storage: -40~70 °C						
	Relative Humidity	0~95% Non-condensing						
	Altitude	<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise						
	Noise (1 meter)	72dB@100 % load 65dB@45 % load	65dB@100 % load 62dB@45 % load	72dB@100 % load 65dB@45 % load	65dB@100 % load 62dB@45 % load			
	Applicable Standards	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3						
Physical	Weight (kg)	Cabinet	660	242	178	660	660	178
		Power module	32.3					
	Dimension W*D*H(mm)	Cabinet	2000* 1050* 2000	600* 1100* 2000	600* 1100* 1600	2000* 1050* 2000	600* 1100* 2000	600* 1100* 1600
		Power module	460*790*134					

CANRM SERIES

RACK-MOUNTED MODULAR ONLINE UPS 25-200KVA (380V/400V/415V)

The CANRM Series Rack Mounted Modular UPS is scalable, hot-swappable, online double conversion. The power capacity is from 25 to 200kVA/kW, it's the ideal choice for modern data center.

With the latest IGBT three-level and full DSP control technology, the new CANRM series delivers the best combination of reliability and flexibility.



Features

- High Power Density
25kVA power module in 2U height, saving great amount of space, easy for capacity expansion
- Rack Modular Design
Module design, compatible with 19" standard rack cabinet, convenient to be integrated with servers
- Battery Cold Start
UPS can be powered on from the battery without utility
- Friendly Interface
Touch LCD display with abundant information

Specification

MODEL		CANRM150-25C	CANRM200-25C
System Capacity		150kVA	200kVA
Power Module Capacity		25kVA/25kW	
Input	Dual Input	Optional	Standard
	Phase	3 Phase+Neutral+Ground, 380V/400V/415V(line-line)	
	Input Voltage Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min phase voltage	
	Rate Frequency	50/60Hz	
	Input Frequency Range	40Hz~70Hz	
	Input PF	>0.99	
	Input THDi	<3% (100% Linear load)	
Bypass	Rate Voltage	380/400/415Vac (line-line)	
	Rate Frequency	50/60Hz	
	Input Voltage Range	Settable, -40%~+25%	
	Bypass Frequency Range	Settable, ±1Hz, ±3Hz, ±5Hz	
	Bypass Overload	110% long term operation; 125% for 5 mins; 150% for 1 min; >150% for 1s	
Output	Rate Voltage	380/400/415Vac (line-line)	
	Voltage Regulation	±1 (0~100% linear load)	
	Rate Frequency	50/60Hz	
	Frequency Precision	0.1%	
	Output PF	1	
	Output THDu	<1% , Linear load; <6%, Non-linear load	
	Crest Factor	3:1	
	Inverter Overload	110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms	
Battery	Voltage	±240Vdc	
	Battery Number	40pcs (Settable: even number from 32 to 44)	
	Voltage Precision	±1%	
	Charge Power	up to 20% * Output active power	
	Battery Cold Start	Standard	
System	Efficiency	AC Mode	96.0%
		ECO Mode	98.0%
		Battery Mode	95.5%
	Display	7.0" color touch screen LCD + LED + keyboard	
	IP Class	IP 20	
	Interface	RS232, RS485, Programmable Dry Contact	
	Option	PDU for CANRM150/25C, SNMP Card, Parallel kit, SPD, LBS	
	Temperature	Operation: 0~40 °C Storage: -40~70 °C	
	Relative Humidity	0~95% Non-condensing	
	Altitude	<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise	
	Noise (1 meter)	65dB @ 100% load, 62dB @ 45% load	
	Applicable Standards	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3	
Physical	Weight (kg)	Cabinet	140
		Power module	18
	Dimension W*D*H(mm)	Cabinet	482*916*931
		Power module	436*677*85

CANRM SERIES

RACK-MOUNTED MODULAR ONLINE UPS 10-90KVA (380V/400V/415V)

The CANRM Series Rack Mounted Modular UPS is scalable, hot-swappable, online double conversion. The power capacity is from 25 to 200kVA/kW, it's the ideal choice for modern data center.

With the latest IGBT three-level and full DSP control technology, the new CANRM series delivers the best combination of reliability and flexibility.



Features

- Rack modular design**
 Modular design, compatible with 19" standard rack cabinet, convenient to be integrated with servers
- High power density**
 10/15kVA power module in 2U height, saving great amount of space, easy for capacity expansion
- Integrated solution for data center**
 UPS can be integrated with battery cabinet, PDU and external maintenance bypass, offering excellent choice for data center
- Intelligent charging management**
 The system intelligently control the whole process of the charging and discharging, effectively improving the life time of the battery
- Flexible configuration**
 The system based on 10kVA power module can be configured to 3/3, 3/1 and 1/1 without derating
- Friendly interface**
 7" touch color LCD with graphic display, more information displayed and easier for customer to operate
- Smart sleep function**
 System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency
- Self-aging mode**
 Energy internal circle technology, system can run with full load, saving more than 90% energy

Specification

MODEL		CAN RM060/10X	CAN RM040/10X	CAN RM030/10X	CAN RM020/10X	CAN RM090/15X	CAN RM045/15X	CAN RM030/15X	
System Capacity		60kVA	40kVA	30kVA	20kVA	90kVA	45kVA	30kVA	
Power Module Capacity		10kVA/10kW				15kVA/15kW			
Input	Dual Input	Standard							
	Phase	3 Phase+Neutral+Ground, 380V/400V/415V(line-line)							
	Input Voltage Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min phase voltage							
	Rate Frequency	50/60Hz							
	Input Frequency Range	40Hz~70Hz							
	Input PF	>0.99							
	Input THDi	<4% (100% Linear load)							
Bypass	Rate Voltage	380/400/415Vac (line-line)							
	Rate Frequency	50/60Hz							
	Input Voltage Range	Settable, -40%~+25%							
	Bypass Frequency Range	Settable, ±1Hz, ±3Hz, ±5Hz							
	Bypass Overload	125% long term operation; 130% for 10mins; 150% for 1 min; >150% for 300ms				110% long term operation; 130% for 5mins; 150% for 1 min; >150% for 300ms			
Output	Rate Voltage	380/400/415Vac (line-line)							
	Voltage Regulation	1% for balance load; 1.5% for unbalance load							
	Rate Frequency	50/60Hz							
	Frequency Precision	0.1%							
	Output PF	1							
	Output THDu	<1%, Linear load; <5.5%, Non-linear load							
	Crest Factor	3:1							
	Inverter Overload	110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms							
Battery	Voltage	±240Vdc							
	Battery Number	40pcs (Settable: even number from 32 to 44)							
	Voltage Precision	±1%							
	Charge Power	up to 20% * Output active power							
	Battery Cold Start	Optional							
System	Efficiency	AC Mode	95.0%						
		ECO Mode	98.0%						
		Battery Mode	94.5%						
	Display	7.0" color touch screen LCD + LED + keyboard							
	IP Class	IP 20							
	Interface	RS232, RS485, Programmable Dry Contact							
	Option	SNMP Card, Parallel kit, SPD, Power module with battery cold start function							
	Temperature	Operation: 0~40 °C Storage: -40~70 °C							
	Relative Humidity	0~95% Non-condensing							
	Altitude	<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise							
	Noise (1 meter)	56dB @ 50% load							
	Applicable Standards	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3							
Physical	Weight (kg)	Cabinet	70	51	55	42	70	55	42
		Power module	15.3				15.5		
	Dimension W*D*H(mm)	Cabinet	485* 751* 1033	485* 697* 575	485* 751* 575	485* 697* 398	485* 751* 1033	485* 751* 575	485* 697* 398
		Power module	436*590*85						

CANRM SERIES

MODULAR ONLINE UPS

20-200KVA (380V/400V/415V)

CANRM series is modular online UPS for sensitive equipments. The single cabinet power rating covers from 20kVA to 200kVA. With the latest IGBT three-level and full DSP control technology, the CANRM series delivers the best of combination of reliability, hot-swappable and flexibility.



Features

- Modular design
Up to 20 power modules in parallel online hot-swappable
- N+X redundancy
Independent charger
Independent charger for each module and intelligently control the whole charging process, prolong the life time of the battery
- Battery cold start
UPS can be powered on from the battery without utility
- Easy connection access
Top and bottom cable entry connection are supported, more convenient for site installation
- Modular design with transformer
Modular UPS up to 60kVA with in-built isolation transformer, meeting different requirement for customers
- High power density
200kVA with footprints of about 0.5m², saving valuable data center space
- Integrated IGBT design
Integrated IGBT in one module, less failure points with higher performance and reliability
- Friendly interface
Touch LCD display with abundant information
- Independent air channel
Cooling air runs in isolated channel, keeping PCB free of dust

Specification

MODEL		CANRM200-20	CANRM120-20	CANRM060-20		
System Capacity		200kVA	120kVA	60kVA		
Power Module Capacity		20kVA/18kW				
Input	Dual Input	Optional				
	Phase	3 Phase+Neutral+Ground, 380V/400V/415V (line-line)				
	Input Voltage Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min phase voltage				
	Rate Frequency	50/60Hz				
	Input Frequency Range	40Hz~70Hz				
	Input PF	>0.99				
	Input THDi	<3% (100% Linear load)				
Bypass	Rate Voltage	380/400/415Vac (line-line)				
	Rate Frequency	50/60Hz				
	Input Voltage Range	Settable, -40%~+25%				
	Bypass Frequency Range	Settable, ±1Hz, ±3Hz, ±5Hz				
	Bypass Overload	125% long term operation; 130% for 1 hour; 150% for 6 mins; 1000% for 100ms				
Output	Rate Voltage	380/400/415Vac (line-line)				
	Voltage Regulation	1% for balance load; 1.5% for unbalance load				
	Rate Frequency	50/60Hz				
	Frequency Precision	0.1%				
	Output PF	0.9				
	Output THDu	<1% , Linear load; <5.5%, Non-linear load				
	Crest Factor	3:1				
	Inverter Overload	110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms				
Battery	Voltage	±240Vdc				
	Battery Number	40pcs (Settable: even number from 32 to 44)				
	Voltage Precision	±1%				
	Charge Power	up to 20% * Output active power				
	Battery Cold Start	Standard				
System	Efficiency	AC Mode	95.0%			
		ECO Mode	99.0%			
		Battery Mode	95.0%			
	Display	5.7" touch screen LCD + LED + keyboard				
	IP Class	IP 20				
	Interface	RS232, RS485, Programmable Dry Contact				
	Option	SNMP Card, Parallel kit, SPD, LBS, Dust filter				
	Temperature	Operation: 0~40 °C Storage: -40~70 °C				
	Relative Humidity	0~95% Non-condensing				
	Altitude	<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise				
	Noise (1 meter)	55dB @ 50% load				
	Applicable Standards	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3				
Physical	Weight (kg)	Cabinet	180	150	105	
		Power module	22			
	Dimension W*D*H(mm)	Cabinet	600*900*2000	600*900*1600	600*900*1100	
		Power module	440*590*134			

CANRM SERIES

MODULAR ONLINE UPS 40-600KVA (380V/400V/415V)

The CANRM series modular, online UPS ranging from 40kVA to 600kVA is designed to protect any critical load for medium and large data center achieving maximum availability. The CANRM series features the latest technology of 3-level technology and PFC input control, which guarantees high efficiency of 96% and ultra-reliability. Its compact design ensures power density of 600kVA in one cabinet, 3 units can be paralleled for capacity or redundancy up to 1500kVA, making it an excellent choice for medium and large facilities.



Features

- Compact design**
 600kVA in one cabinet, footprint less than 1.45m², saving valuable room space
- High power density**
 50kVA power module in 4U height, easy for capacity expansion
- High efficiency**
 Advanced 3-level technology guarantees high efficiency operating in double conversion mode up to 96%
- Intelligent charging management**
 The system intelligently control the whole process of the charging and discharging, effectively improve the life time of the battery
- High scalability**
 The system can be configured from 40kVA to 600kVA in one single cabinet, 3 units in parallel for a capacity up to 1500kVA
- Friendly HMI**
 10.4" touch color LCD with graphic display, independent LCD for each power module
- Smart sleep function**
 System can intelligently shutdown some power modules to increase total load rate, achieving higher efficiency
- Multi communication interface**
 Provide RS232, RS485, USB, SNMP, AS400 and programmable dry contacts

Specification

MODEL		CANRM 600-50X	CANRM 500-50X	CANRM 400-50X	CANRM 300-50X	CANRM 200-50X	CANRM 100-50X	CANRM 240-40X	CANRM 160-40X	CANRM 080-40X		
System Capacity		600kVA	500kVA	400kVA	300kVA	200kVA	100kVA	240kVA	160kVA	80kVA		
Power Module Capacity		50kVA/50kW						40kVA/40kW				
Input	Dual Input	Standard										
	Phase	3 Phases + Neutral + Ground, 380/400/415VAC (line-line)										
	Input Voltage Range	304~478Vac (Line-Line),full load 228V~304Vac (line-line),load decrease linearly according to the min phase voltage										
	Rate Frequency	50/60Hz										
	Input Frequency Range	40Hz~70Hz										
	Input PF	>0.99										
Input THDi		<3% (100% Linear Load)										
Bypass	Rate Voltage	380/400/415VAC (Line-Line)										
	Rate Frequency	50/60Hz										
	Input Voltage Range	Settable, -40%~+25%										
	Bypass Frequency Range	Settable, ±1Hz, ±3Hz, ±5Hz										
	Bypass Overload	110% Long term operation 110%~125% last for more than 5min 125%~150% last for more than 1min			125%, long time <130%, for 10 mins <150%, for 1 min			110% long term 125% for 5mins 150% for 1min		125%, long time 130%, for 10 minutes 150%, for 1 min		
Output	Rate Voltage	380/400/415VAC (Line-Line)										
	Voltage Regulation	1% for balance load; 1.5% for unbalance load										
	Rate Frequency	50/60Hz										
	Frequency Precision	0.1%										
	Output PF	1										
	Output THDu	<1% linear load; <5.5% non-linear load										
	Crest Factor	3:1										
	Inverter Overload	<110% for 1 hour; 125% for 10mins; 150% for 1min; >150% for 200ms										
Battery	Voltage	±240VDC										
	Battery Number	40pcs (settable: even number from 32 to 44)										
	Voltage Precision	1%										
	Charge Power	up to 20% *Output active power										
	Battery Cold Start	Standard					Optional		Standard		Optional	
System	Efficiency	AC Mode: 96% ECO Mode: 99% Battery Mode: 96%										
	Display	10.4" (240-600kVA) or 7" (80-200kVA) touch screen LCD + LED+ Keyboard										
	IP Class	IP20										
	Interface	RS232, RS485, USB, Programmable dry contact										
	Option	SNMP, Parallel kit, SPD, Dust Filter, LBS										
	Temperature	Operation: 0 ~ 40 °C Storage: -40 ~ 70 °C										
	Relative Humidity	0 ~ 95% Non condensing										
	Altitude	<1000m, Load derated 1% per 100m From 1000 ~ 2000m										
	Noise (1 meter)	72dB @ 100% load, 69dB @ 45% load										
Applicable Standards		Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3										
Physical	Weight (kg)	Cabinet	1040	900	700	490	350	210	490	350	210	
		Power module	45						44			
	Dimension W*D*H(mm)	Cabinet	1300*1100*2000			1050* 1000* 2000	650* 1095* 2000	650* 960* 1600	600* 980* 1150	650* 1095* 2000	650* 960* 1600	600* 980* 1150
		Power module	510*700*178									

CANRM SERIES

MODULAR ONLINE UPS 60-600KVA (380V/400V/415V)

CANRM600-60D series are modular online UPS with brand-new topology, a bidirectional DC-DC converter circuit, which greatly improve the system performance and guarantees high efficiency of 97%. Its compact design ensures the power density, achieve this 600kW system occupies only an area of 0.9m².

CANRM series is considered to be an excellent power supply solution for large data centers and facilities.



Features

- High efficiency
Advanced 3-level technology guarantees, high efficiency operating in double conversion mode up to 97%
- Compact design
600kVA in one cabinet, footprint less than 0.88m², saving great space of data center
- High power density
60kVA power module in 2U height, easy for capacity expansion
- Intelligent charging management
The system intelligently control the whole process of the charging and discharging, double side DC-DC topology, support charging power reaching 30%

High Density, Flexible, Artistic

Flexible capacity expansion and redundancy from 60kVA to 1.8MW, max 30 power modules 3 cabinets in parallel.

Three cabinets to select: 5/8/10 slots.
Ultra-large 10.1 inch color touch LCD display for IoT application and intelligent monitoring.



- Friendly HMI
Ultra-large 10" color touch LCD display for IoT application intuitive information and easier to operate modules to increase total load rate, achieving higher efficiency
- Multi communication interface
Provide CAN, RS485, USB, SNMP, AS400 and programmable dry contacts
- High scalability
The system can be configured from 60kVA to 1.8MW, max 30 power modules 3 cabinets in parallel.
- Smart sleep function
System can intelligently shutdown some power



Specification

MODEL		CANRM 600-60D	
System Capacity		600kVA	
Power Module Capacity		60kVA/kW	
Input	Dual Input	Standard	
	Phase	3Phase+Neutral+Ground, 380/400/415VAC (line-line)	
	Input Voltage Range	50/60Hz	
	Rate Frequency	323~478Vac (line-line), full load 323V~138Vac (line-line), load decrease linearly from 100% to 40% according to the min phase voltage	
	Input Frequency Range	40Hz~70Hz	
	Input PF	>0.99	
	Input THDi	<3% (100% Linear load)	
Bypass	Rate Voltage	380/400/415VAC (line-line)	
	Rate Frequency	50/60Hz	
	Input Voltage Range	Settable, default -20%~+15% Up limit: +10%, +15%, +20%, +25% Down limit: -10%, -15%, -20%, -30%, -40%	
	Bypass Frequency Range	Settable, ±1Hz, ±3Hz, ±5Hz	
	Bypass Overload	110% for long term operation; 110%~125% for 5 mins; 125%~150% for 1 min; 150%~400% for 1 s; >400% less than 200ms	
Output	Rate Voltage	380/400/415VAC (line-line)	
	Rate Frequency	50/60Hz	
	Output PF	1	
	Output THDu	±1%	
	Crest Factor	<1% Linear load; <5%, Non-linear load	
	Inverter Overload	<110%, 1hour; 110%~125%, 10mins; 125%~150%, 1min; >150%, 200ms	
	Rate Frequency	50/60Hz	
	Frequency Precision	± 0.1%	
Battery	Voltage	±180~288VDC 30~32pcs derate to 0.7; 34~36pcs derate to 0.8; 38pcs derate to 0.9; 40~48pcs	
	Voltage Precision	0.01	
	Charge Power	Up to 30% * Output active power	
System	Efficiency	AC Mode	>97%
		Battery Mode	>96%
	Display	LED+Color touch LCD	
	Interface	Standard: RS485, USB, CAN, Programmable Dry Contact	
	Option	SNMP card, AS400 card, Parallel kit, SPD, Dual input kit, LBS	
	Temperature	Operation: 0~40 °C Storage: -40~70 °C	
	Relative Humidity	0~95% Non-condensing	
	Altitude	75dB @ 100% load, 70dB @ 45% load	
	Noise (1 meter)	<1000m. Within 1000m~2000m, 1% power derating for every 100m	
Applicable Standards	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3		
Physical	Weight (kg)	Cabinet	800*1100*2000
		Power module	550*750*85
	Dimension W*D*H(mm)	Cabinet	443
		Power module	35.7

CANHT33 SERIES

TOWER ONLINE UPS 60-500KVA (380V/400V/415V)

CANHT33 series three phase UPS offers advanced technology that increase performance and reliability: three high speed DSPs with completed digital control fully ensure high quality of power supply, high input power factor and low input current distortion. It also offers humanization design: full front access of serviceability and user friendly interface.



Features

- High efficiency, up to 96%
- High input PF>0.99; Input current THDi<3%
- Multi-protection, over-temperature protection with 8 sensors,
- over-load, battery under voltage, fan failures, short-circuit
- Battery cold start
- Battery management with smart charging control, greatly extend the battery life
- High power density
- Parallel up to 1500kVA
- Modular design of subsystem, convenient for field maintenance
- Friendly operation interface, color touch LCD screen

Specification

MODEL		CANHT 33060X	CANHT 33080X	CANHT 33090X	CANHT 33100X	CANHT 33120X	CANHT 33150X	CANHT 33200X	CANHT 33250X	CANHT 33300X	CANHT 33400X	CANHT 33500X	
System Capacity		60 kVA	80 kVA	90 kVA	100 kVA	120 kVA	150 kVA	200 kVA	250 kVA	300 kVA	400 kVA	500 kVA	
Input	Dual Input	Standard						Optional		Standard			
	Phase	3 Phase+Neutral+Ground, 380V/400V/415V (line-line)											
	Input Voltage Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min phase voltage											
	Rate Frequency	50/60Hz 50/60Hz											
	Input Frequency Range	40Hz~70Hz											
	Input PF	>0.99											
	Input THDi	<3% (100% Linear load)											
Bypass	Rate Voltage	380/400/415Vac (line-line)											
	Rate Frequency	50/60Hz											
	Input Voltage Range	Settable, -40%~+25%											
	Bypass Frequency Range	Settable, ±1Hz, ±3Hz, ±5Hz											
	Bypass Overload	125% long term operation 130% for 10 mins 150% for 1 min >150% for 300ms						110% long term operation 125% for 5 mins 150% for 1 min >150% for 1s					
Output	Rate Voltage	380/400/415Vac (line-line)											
	Voltage Regulation	1% for balance load; 1.5% for unbalance load											
	Rate Frequency	50/60Hz											
	Frequency Precision	0.1%											
	Output PF	1											
	Output THDu	<1% , Linear load; <5.5%, Non-linear load											
	Crest Factor	3:1											
	Inverter Overload	110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms											
Battery	Voltage	±240Vdc											
	Battery Number	40pcs (Settable: even number from 32 to 44)											
	Voltage Precision	±1%											
	Charge Power	up to 20% * Output active power											
	Battery Cold Start	Optional						Standard					
System	Efficiency	AC Mode	95%	96%	95%	96%	95%	96%					
		ECO Mode	99%										
		Battery Mode	95%	96%	95%	96%	95%	96%					
	Display	10.4''(240kVA-500kVA) or 7''(60kVA-200kVA) touch screen LCD + LED + keyboard											
	IP Class	IP 20											
	Interface	RS232, RS485, Programmable Dry Contact, USB											
	Option	SNMP Card, Parallel kit, SPD, LBS, Dust filter											
	Temperature	Operation: 0~40 °C Storage: -40~70 °C											
	Relative Humidity	0~95% Non-condensing											
	Altitude	<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise											
	Noise (1 meter)	65dB @ 100% load, 62dB @ 45% load											
Applicable Standards	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3												
Physical	Weight (kg)	170	210	231	210	266	305	350	445	490	700	900	
	Dimension W*D*H(mm)	600* 980* 950	600* 980* 1150	600* 980* 1400	600* 980* 1150	600* 980* 1400	650* 960* *1600	650* 960* *1600	650* 970* 2000	650* 970* 2000	1050* 1000* 2000	1300* 1100* 2000	

CANHT33 SERIES

TOWER ONLINE UPS 10-40KVA (380V/400V/415V)

CANHT33 series UPS applies advanced technology that increases performance and reliability: two high speed DSPs with completed digital control to ensure high quality of power supply, high input power factor and low input current distortion.



Features

- High efficiency, up to 96%
- High input PF>0.99; Input current THDi<4%
- Multi-protection, over-temperature protection with 8 sensors,
- over-load, battery under voltage, fan failures, short-circuit
- Four circuit breakers, providing full protection when fault happens
- Battery cold start
- Battery management with smart charging control, greatly extend the battery life
- Parallel up to 8 units
- Friendly operation interface, high-resolution LCD screen

Specification

MODEL		CAN HT33010XS	CAN HT33015XS	CAN HT33020XS	CAN HT33030XS	CAN HT33040XS
		CAN HT33010XL	CAN HT33015XL	CAN HT33020XL	CAN HT33030XL	CAN HT33040XL
System Capacity		10kVA	15kVA	20kVA	30kVA	40kVA
Input	Dual Input	Standard				
	Phase	3 Phase+Neutral+Ground, 380V/400V/415V (line-line)				
	Input Voltage Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min phase voltage				
	Rate Frequency	50/60Hz				
	Input Frequency Range	40Hz~70Hz				
	Input PF	>0.99				
	Input THDi	<4% (100% Linear load)		<3% (100% Linear load)		
Bypass	Rate Voltage	380/400/415Vac (line-line)				
	Rate Frequency	50/60Hz				
	Input Voltage Range	Settable, -40%~+25%				
	Bypass Frequency Range	Settable, ±1Hz, ±3Hz, ±5Hz				
	Bypass Overload	125% long term operation; 130% for 10 mins; 150% for 1 min				
Output	Rate Voltage	380/400/415Vac (line-line)				
	Voltage Regulation	1% for balance load; 1.5% for unbalance load				
	Rate Frequency	50/60Hz				
	Frequency Precision	0.1%				
	Output PF	1		0.9		
	Output THDu	<1%, Linear load; <5.5%, Non-linear load				
	Crest Factor	3:1				
	Inverter Overload	110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms				
Battery	Voltage	±240Vdc				
	Battery Number	40pcs (Settable: even number from 32 to 44)				
	Voltage Precision	±1%				
	Charge Power	up to 20% * Output active power				
	Battery Cold Start	Optional				
System	Efficiency	AC Mode	95.0%			96.0%
		ECO Mode	98.0%			
		Battery Mode	95.0%			96.0%
	Display	LCD + LED + keyboard				
	IP Class	IP 20				
	Interface	RS232, RS485				
	Option	SNMP Card, Parallel kit, USB, Programmable Dry Contact				
	Temperature	Operation: 0~40 °C Storage: -40~70 °C				
	Relative Humidity	0~95% Non-condensing				
	Altitude	<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise				
	Noise (1 meter)	55dB @ 50% load				
	Applicable Standards	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3				
Physical	Weight (kg)	51.5	51.5	89	89	140
		31	31	50	52	61
	Dimension W*D*H(mm)	250*840*715	250*840*715	350*738*1335	350*738*1335	500*840*1400
		250*660*530	250*660*530	250*680*770	250*680*770	250*836*770

CANHR33 SERIES

RACK ONLINE UPS 10-40KVA (380V/400V/415V)

The CANHR33 Series Rack is double conversion online UPS with fully DSP controlled technology. With its flexible configuration of 3/3 and 3/1, compact design, it's the ideal choice for modern data center.



Features

- Rack Design

Rack design, compatible with 19" standard rack cabinet, convenient to be integrated with servers

- Friendly Interface

5.5" touch color LCD with graphic display, more information displayed and easier for customer to operate

- Flexible configuration

The system of 10kVA and 20kVA can be configured to 3/3 and 3/1

- Intelligent charging management

The system intelligently control the whole process of the charging and discharging, effectively improving the life time of the battery

Specification

MODEL		CAN HR33010CL	CAN HR33015CL	CAN HR33020CL	CAN HR33025CL	CAN HR33030CL	CAN HR33040CL	
System Capacity		10kVA/10kW	15kVA/15kW	20kVA/20kW	25kVA/25kW	30kVA/30kW	40kVA/40kW	
Input	Dual Input	Standard						
	Phase	3 Phase+Neutral+Ground, 380V/400V/415V(line-line)						
	Input Voltage Range	304~478Vac (line-line), full load; 228V~304Vac (line-line), load decreases linearly according to the min phase voltage						
	Rate Frequency	50/60Hz						
	Input Frequency Range	40Hz~70Hz						
	Input PF	>0.99						
	Input THDi	<4% (100% Linear load)			<3% (100% Linear load)			
Bypass	Rate Voltage	<3% (100% Linear load)						
	Rate Frequency	50/60Hz						
	Input Voltage Range	Settable, -40%~+25%						
	Bypass Frequency Range	Settable, ±1Hz, ±3Hz, ±5Hz						
	Bypass Overload	125% long term operation; 130% for 10 mins; 150% for 1 min, >150% for 1s						
Output	Rate Voltage	380/400/415Vac (line-line)						
	Voltage Regulation	1% for balance load; 1.5% for unbalance load						
	Rate Frequency	50/60Hz						
	Frequency Precision	0.1%						
	Output PF	1						
	Output THDu	<1%, Linear load; <5.5%, Non-linear load			<1.5%, Linear load; <6%, Non-linear load			
	Crest Factor	3:1						
	Inverter Overload	110% for 1 hour; 125% for 10 mins; 150% for 1 min; >150% for 200 ms						
Battery	Voltage	±240Vdc						
	Battery Number	40pcs (Settable: even number from 32 to 44)						
	Voltage Precision	±1%						
	Charge Power	up to 20% * Output active power						
	Battery Cold Start	Standard						
System	Efficiency	AC Mode	95%	95.5%	96%			
		ECO Mode	98%					
		Battery Mode	94.5%	95%	95.5%			
	Display	LCD + LED + keyboard						
	IP Class	IP 20						
	Interface	RS232 for 10-25kVA, USB for 30-40kVA, RS485, Programmable Dry Contact						
	Option	LBS for HR33020CL and HR33025CL, SNMP Card, Parallel kit						
	Temperature	Operation: 0~40 °C Storage: -40~70 °C						
	Relative Humidity	0~95% Non-condensing						
	Altitude	<1000m. Within 1000m to 2000m, 1% power derating for every 100m rise						
	Noise (1 meter)	65dB @ 100% load, 62dB @ 45% load						
	Applicable Standards	Safety: IEC/EN 62040-1 EMC: IEC/EN 62040-2 Performance: IEC/EN 62040-3						
	Physical	Weight (kg)	25	30	41			
Dimension W*D*H(mm)		438*780*130	438*780*130	438*700*174				

CANHT31 SERIES

TOWER ONLINE UPS 10-40KVA (220V/230V/240V)

CANHT31 series is online double-conversion UPS with full DSP control technology. With high input and output power factor, self-adjusting output frequency and network management, CANHT31 is a perfect choice for computers, telecommunication equipments and other sensitive devices.



Features

Common features for 10-40kVA

- Full protection of overvoltage, circuit short and over temperature
- Auto fan speed adjustment
- Abundant interface: RS232, USB, SNMP, Intelligent Card
- Parallel up to 4 units

Unique features for 10-20kVA

- Output PF=1
- Small size with higher power density
- Digital Charger, adjustable from 1A to 5A
- 12A charger for option, charging for large capacity batteries

Specification

MODEL	CANHT3110-XL	CANHT3115-XL	CANHT3120-XL	CANHT3140-L
Capacity	10kVA	15kVA	20kVA	40kVA
Phase	Three phase in, Single phase out			
Input voltage range	190Vac~499Vac			228Vac~478Vac
	100% load@ >305Vac, 90% load@ >266Vac 75% load@ >228Vac, 50% load@ >190Vac			100% load@ >305Vac 90% load@ >266Vac 75% load@ >228Vac
Input PF	≥0.99			
Input THDi	≤4% (100% Linear load)			≤3% (100% Linear load)
Input frequency range	40Hz-70Hz			
Output PF	1			0.9
Output voltage	220V/230V/240V			
Voltage regulation	1%			
THDu	≤1% (full linear load) ≤3% (full non-linear load)			≤1% (full linear load) ≤5% (full non-linear load)
Battery voltage	192Vdc			±240Vdc
Battery type/number	External			
System efficiency	Normal: 94.5%;	Normal: 95%		
	ECO :98%;			
Noise(1 meter away)	<50dB@<70%load; <58dB@>70%load			65dB @ 100%load 62dB @ 45%load
Overload capability (Inverter mode)	110%: for 10 min ;130%:for 1 min; 150%: for 30 sec (shut down the bypass after 1 min)			
Overload capability (Battery mode)	110%: shut down after 1 min; 130%: shut down after 10 sec; >130%: shut down after 200 ms			110%: shut down after 10 min; 125%:shut down after 10 sec; >125%: shut down after 1 sec
Crest factor	3:1			
Display	LED+LCD			10.4" color touch screen LC-D+LED
Interface	Standard:RS232, EPO Optional: RS485, USB, SNMP, Dry contacts			Standard: RS232, RS485 USB, Dry contacts Optional: SNMP, parallel kit Battery cold start
W*D*H(mm)	190*485*336	190*485*480	190*485*480	600*980*950
Weight(kg)	22	33	33	170

CANHT11 SERIES

TOWER ONLINE UPS 6-20KVA (220V/230V/240V)

CANHT11 series, ranging from 6kVA to 20kVA, is double conversion online UPS with fully DSP controlled technology. The single phase UPS applies the advanced 3-level technology, achieving a efficiency up to 95%. With its compact design of high power density (kW=kVA), HT11 series makes it ideal choice for computers, telecommunication equipment and other sensitive devices.



Features

- High efficiency, up to 95%
- kVA=kW, Output PF=1
- 3 level of technology, compatible with complicated load
- Battery number can be set on LCD
- Intelligent charging management, effectively improving the life time of battery
- Smaller size with higher power density
- Parallel up to 4 units
- 12A charger for option, charging for large capacity batteries

Specification

MODEL	CANHT1106XS	CANHT1106XL	CANHT1110XS	CANHT1110XL	CANHT1115XL	CANHT1120XL
Capacity	6kVA/6kW	6kVA/6kW	10kVA/10kW	10kVA/10kW	15kVA/15kW	20kVA/20kW
Phase	Single phase in, Single phase out					
Input voltage range	110Vac~288Vac					
	100 % load@>176Vac; 90% load@>160Vac 80% load@>140Vac; 60% load@>110Vac					
Input PF	≤4%@100% load; ≤6%@50% load (linear load)					
Input THDi	≥0.99					
Input frequency range	40Hz-70Hz					
Output PF	1					
Output voltage	220V/230V/240V					
Voltage regulation	±1%					
THDu	≤2%(linear); ≤5% (non-linear)				≤1%(linear); ≤3% (non-linear)	
Battery voltage	192Vdc					
Battery type/number	12V, 7Ah*16	External	12V, 9Ah*16	External		
System efficiency	Normal mode: 95%					
Noise(1 meter away)	<48dB@<70%load; <58dB@>70%load				<50dB@<70%load; <58dB@>70%load	
Overload capability (Inverter mode)	110%: for 10 min;125%: for 1min; 150%: for 30 sec					
Overload capability (Battery mode)	110%: shut down after 1 min; 130%:shut down after 10 sec; >130%: shut down after 200 ms					
Crest factor	3:1					
Display	LED+LCD					
Interface	Standard:RS232 Optional: SNMP, USB, RS485, Dry Contacts, Parallel Kit					
W*D*H(mm)	190*426*705	190*426*336	190*485*705	190*485*336	190*485*480	
Package Weight (kg)	56	14	60	16	33	

CANHT11 SERIES

TOWER ONLINE UPS 1-3KVA (220V/230V/240V)

CANHT11 series is online double-conversion UPS with full DSP control technology. With high input and output power factor, self-adjusting output frequency and network management, CANHT11 is a perfect choice for computers, telecommunication equipments and other sensitive devices.



Features

- Wide range of input voltage while input PF>97%
- Output PF of 0.9, more powerful load capability
- Full protection of overvoltage, circuit short and over temperature
- LCD/LED display, monitoring all the operation status
- Auto fan speed adjustment
- Reliable and stable pure sine wave output

Specification

MODEL	I	CANHT1101S	CANHT1101L	CANHT1102S	CANHT1102L	CANHT1103S	CANHT1103L	
	II	CANHT1101S-II	CANHT1101L-II	CANHT1102S-II	CANHT1102L-II	CANHT1103S-II	CANHT1103L-II	
Capacity	1kVA		2kVA		3kVA			
Phase	Single Phase in, Single Phase out							
Input voltage	110Vac-288Vac							
	100% load@>176Vac; 80% load@>154Vac; 70% load@>132Vac; 50% load@>110Vac							
Input PF	≥0.97							
Input frequency	40Hz~70Hz							
Output PF	I	0.9						
	II	0.8						
Output voltage	220V/230V/240V							
Voltage regulation	± 1 %							
THDu	≤2%(linear)							
Crest factor	≤5.5%(non-linear)		≤5%(non-linear)		≤5%(non-linear)			
Efficiency	3:1							
Noise	87.0%		91.0%		90.0%			
	<43dB@<70%Load, <47dB@>70%Load		<45dB@<70%Load, <50dB@>70%Load		<45dB@<70%Load, <50dB@>70%Load			
Overload capability	Inverter	105%~130%: to bypass after 1 min; 150%: to bypass after 30 sec						
	Battery	105%~130%: shut down after 10 sec; 150%: shut down after 5 sec						
Battery voltage	I	36Vdc		72Vdc		96Vdc		
	II	24Vdc		48Vdc		72Vdc		
Battery type/ number	I	12V, 7Ah*3	External	12V, 7Ah*6	External	12V, 7Ah*8	External	
	II	12V, 7Ah*2	External	12V, 7Ah*4	External	12V, 7Ah*6	External	
Max charging current	1A		8A		1A		8A	
Interface	RS232, EPO							
Optional	USB(B Type), SNMP, Dry contact							
W*D*H(mm)	I	144*353*222		190*375*336		190*427*336		
	II	144*353*222		190*374*336		190*374*336		
Weight(kg)	I	10.5	5	21	8.5	24.5	9.5	
	II	10	6	17	11	22	12	

CANHR11 SERIES

RACK ONLINE UPS 1-10KVA (220V/230V/240V)

CANHR11 series, ranging from 1kVA to 10kVA, is double conversion online rack UPS with fully DSP controlled technology. The single phase of 6-10kVA UPS applies the advanced 3-level technology, achieving a efficiency up to 95%. With its compact design of high power density (kW=kVA) in 2U height, CANHR11 series makes it ideal choice for computers, telecommunication equipment and other sensitive devices.



Features

Common features for 1-10kVA

- Wide range of input voltage while input PF>99%
- 19" standard cabinet and battery cabinet
- Full protection of overvoltage, circuit short and over temperature
- LCD/LED display, monitoring all the operation status
- Automatic fan speed adjustment
- Abundant interface: RS232, USB, SNMP, Intelligent Card

Unique features for 6-10kVA

- High efficiency, up to 95%
- kVA=kW, output PF=1
- Intelligent charging management, effectively improving the life time of battery
- 3 level of technology, compatible with complicated load

Specification

MODEL	CANHR1101S	CANHR1102S	CANHR1103S	CANHR1106XS	CANHR1110XS
	CANHR1101L	CANHR1102L	CANHR1103L	CANHR1106XL	CANHR1110XL
Capacity	1kVA	2kVA	3kVA	6kVA	10kVA
Input voltage range	110Vac-288Vac				
	100% load@>176Vac; 80% load@>154Vac 70% load@>132Vac; 50% load@>110Vac			100% load@>176Vac; 90% load@>160Vac 80% load@>140Vac; 60% load@>110Vac	
Input frequency	40-70Hz				
Input PF	≥0.97			≥0.99	
Voltage regulation	±1 %				
Output frequency	50/60Hz				
Output PF	0.9			1.0	
Overload capability (Inverter mode)	105%-130%: to bypass 1 min; 150%: to bypass after 30 sec			110%:for 10 min;125%:for 1min ; 150%: for 30 sec	
Overload capability (Battery mode)	105%-130%: shutdown after 10 sec; 150%: shutdown after 5 sec			110%: shut down after 1 min; 130%: shut down after 10 sec; >130%: shut down after 200 ms	
Crest factor	3:1				
Efficiency	87%	91%	90%	95%	
Display	LED+LCD				
Battery voltage	36Vdc	72Vdc	96Vdc	192Vdc	
Battery type/number	12V,7Ah*3	12V,7Ah*6	12V,7Ah*8	12V,7Ah*16	12V,9Ah*16
	External				
Interface	RS232, EPO				
Optional	USB, SNMP, Dry contacts			USB, SNMP, ECO kit, Dry contacts, Battery cabinet	
Operation temperature	0-40 °C				
Relative humidity	0-95% (non-condensing)				
W*D*H(mm)	440*430*86	440*480*173	440*480*173	440*660*173	
	440*430*86	440*480*86	440*480*86	440*550*86	
Weight(kg)	11.5	25	31	59	67
	7	8	9.5	17.5	20.5