



CN-UR Series High Frequency Online



Rack Type UPS 1kVA~60kVA

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Power Solution Specialist

CN-UR Series High Frequency Online UPS Single Phase In Single Phase Out 1~10KVA

Double conversion pure online type

The intelligent slots offer a wealth of expandable functions with the option of IS-B cards, AS400 cards, c-monitoring cards, SNMP cards, RS485 cards, EI environmental monitoring cards.

Real time monitoring and alarm

Detect important parameters in real time, and immediately give an alarm if any abnormality is found.

Energy saving

Under normal use, the product will not cause harm to people and the environment.

Can be used with a generator

The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure, stable power supply to the load.

Zero Switch

The UPS will switch to battery mode when the mains power is normal Zero time, which can effectively ensure the safety and reliability of the instrument.



Product Description

Coolnet CN-UR series rack type UPS is the double transformation on-line technology, support more than 3 sets parallel work, and support the function of sharing battery pack when in parallel mode; online UPS can provide the optimal power environment for the load. Regardless of voltage accuracy, input noise filtering, zero switching time and compatible with the standard terms of service cabinet, Rack UPS is the best choice

Main Feature

- True double-conversion
- Microprocessor control optimizes reliability
- Output power factor correction
- Wide input voltage range(110-300VAC)
- Converter mode available
- ECO mode for energy saving only available for 1-3KVA models
- Generator compatible
- Adjustable charging current via LCD or software(1A-6A)
- Emergency power off function(EPO) only available for 6K/10K models
- Comprehensive display allows easy monitoring access of UPS status

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Model CN-UR	1101(L)	1102(L)	1103(L)	1106(L)	1110(L)		
Capacity	1kVA/0.8kW	2kVA/1.6kW	3kVA/2.4kW	6kVA/4.8kW	10kVA/8kW		
Input							
Connection Mode	Single Phase + Ground						
Input Voltage	200/208/220/230/240Vac						
Voltage Range	110-300Vac						
Frequency Range	40-70Hz						
Power Factor	0.8						
Output							
Output Voltage	200/208/220/230/240Vac						
Voltage Regulation	±1%						
Frequency	SYN Correction range	46-54Hz/56-64Hz					
	Battery Model	50 Hz ± 0.1Hz / 60Hz ± 0.1 Hz					
Distortion (THDU)	≤3%						
Peak Coefficient	≥ 3:1						
Overload Capacity	110%, convey to bypass after 1h ;125%, convey to bypass after 10 min;150%, convey to bypass after 1 min.						
Transfer Time	City power/Battery	0 ms					
	Inverter/Bypass	≤4ms(standard environment)			0 ms		
Battery Type							
Battery Internal	Quantity	2	4	6	/		
	Charging Current	1.0A(Max)				/	
	Battery Model	12V 9AH				/	
Battery External	Quantity	3	6	8	16(16-20 optional)		
	Charging Current	1A/2A/4A/6A settable					
	Battery Model	Depends on the applicant					
Efficiency							
City Electricity Mode	≥91%			≥93%			
Battery Mode	≥91%			≥93%			
Display Interface							
LCD/LED	Loading Size, Battery Capacity, City Electricity Mode, Battery Mode, Bypass Mode, Fault Indication						
Control Management							
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC						
Optional SNMP	Support SNMP Internet Management						
Environment							
Temperature	0-40°C						
Relative Humidity	0-95% (Non Condensing)						
Noise Level	<50dB@1m		<55dB@1m		<58dB@1m		
Physical							
Standard Unit	Dimension: W*D*H(mm)	438*310*88	438*410*88	438*630*88	/	/	
	Net Weight(kg)	12	18	29	/	/	
Long Backup Unit	Dimension: W*D*H(mm)	438*310*88	438*410*88		438*530*88	438*530*133	
	Net Weight(kg)	5	7	8	12	16	

CN-UR Series High Frequency Online UPS Single Phase In Single Phase Out 1~10KVA



Superior overload capacity
Superior overload capacity to make the power supply system more reliable.



User-friendly design
LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;



Load power factor of 0.9
Adapts to the characteristics of most current electrical equipment and increases the load carrying capacity of the machine.



Can be used with a generator
The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure, stable power supply to the load.



Main Feature

- True double-conversion
- Microprocessor control optimizes reliability
- Input power factor correction
- Output power factor 0.9
- Wide input voltage range
- Converter mode available
- ECO mode for energy saving only available for 1-3K models
- Generator compatible
- Adjustable charging current via LCD or software (1A~6A)
- Emergency power off function (EPO) only available for 6K/10K models
- Comprehensive display allows easy monitoring and access of UPS status

Applications

Mainly used in large IDC rooms, bank/securities settlement center, communication network management center, semiconductor product lines and large automation production and its control system. According to the special needs of users was improved, and used in large sports venues, conference room, theater and highway and railway tunnels metal halide lamp lighting system.

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Model CN-UR	1101(L)	1102(L)	1103(L)	1106(L)	1110(L)					
Capacity	1KVA /0.9KW	2KVA / 1.8KW	3KVA / 2.7KW	6KVA / 5.4KW	1KVA / 9KW					
Input										
Connection Mode	Single Phase + Ground									
Nominal Voltage	110/115/120/127VAC or 208/220/230/240VAC			208/220/230/240VAC						
Input Voltage	60-145 VAC or 120-300 VAC (Based on load at 50%) 90-145 VAC or 180-300 VAC (Based on load at 100%)			110-300 VAC (Based on load at 50%) 176-300 VAC (Based on load at 100%)						
Frequency Range	40 Hz ~ 70 Hz			46~54 Hz or 56~64 Hz						
Power Factor	0.9									
Output										
Output Voltage	110/115/120/127VAC or 208/220/230/240VAC			208/220/230/240VAC						
Voltage Regulation	±1 %									
Frequency	SYN Correction range	47~ 53 Hz or 57 ~ 63 Hz			46Hz ~ 54 Hz or 56Hz ~ 64 Hz					
	Battery Model	50 Hz or 60Hz ± 0.5%			50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz					
Current Crest Ratio	3:01									
Harmonic Distortion	3 % THD (Linear Load) 6 % THD (Non-linear Load)			3 % THD (Linear Load) 5 % THD (Non-linear Load)						
Transfer Time	City power/Battery	Zero			0 ms					
	Inverter/Bypass	4 ms (Typical)			0 ms					
Waveform (Batt. Mode)	Pure Sinewave									
Battery Type										
Battery Internal	Battery Type	12 V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah	12 V / 9 Ah					
	Quantity	2	3	4	6	16	20	16	20	
	Typical Recharge Time	4 hours recover to 90% capacity				9 hours recover to 90% capacity				
	Charging Current (max.)	1 A				1A/2A (Adjustable)				
Charging Voltage	27.4VDC ± 1%	41.0VDC ± 1%	54.7 VDC ± 1%	82.1 VDC ± 1%	218.4 VDC ± 1%	273VDC ± 1%	218.4 VDC ± 1%	273VDC ± 1%		
Battery External	Battery Type	Depending on applications								
	Quantity	3	6	6	16 ~ 20 (Adjustable)					
	Charging Current (max.)	1.0A/2.0A/4.0A/6.0 A				1A/2A/4A/6A (Adjustable, 6A is only available for 16 pcs batteries)				
	Charging Voltage	41.0 VDC ± 1%	82.1 VDC ± 1%	82.1 VDC ± 1%	218.4 VDC ± 1% (Based on 16 pcs batteries)					
Efficiency						Depends on the applicant				
City Electricity Mode	88%	89%	90%	92%	90%					
Battery Mode	83%	87%	88%	90%	91%					
Display Interface						LCD				
						Loading Size, Battery Capacity, City Electricity Mode, Battery Mode, Bypass Mode, Fault Indication				
Control Management						Smart RS-232/USB				
						Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC				
Optional SNMP						Support SNMP Internet Management				
Environment						Relative Humidity				
		20-90 % RH @ 0- 40°C (Non-condensing)			0-95% RH @ 0-40°C (non-condensing)					
		Noise Level			<50dB@1m		<55dB@1m		<58dB@1m	
Physical						Standard Unit				
Standard Unit	Dimension: W*D*H(mm)	438*310*88	438*410*88	438*630*88	UPS Unit:438*500*88[2U] Battery Pack: 438*668*88[2U]	UPS Unit:438*500*88[2U] Battery Pack: 438*580*133[3U]	UPS Unit: 438*580*133[3U] Battery Pack: 438*580*133 [3U]			
	Net Weight(kg)	12	14.1	19	29.3	UPS Unit:15 Battery Pack:48	UPS Unit: 15 Battery Pack: 61	UPS Unit: 18 Battery Pack: 51	UPS Unit: 18 Battery Pack: 61	
Long Backup Unit	Dimension: W*D*H(mm)	438*310*88	438*410*88	438*460*88	438*500*88 [2U]		438*580*133[3U]			
	Net Weight(kg)	9	12	14.2	15		18			

CN-UR Series High Frequency Online UPS Single Phase In Single Phase Out 1~3KVA

Superior overload capacity
Superior overload capacity to make the power supply system more reliable.

User-friendly design
LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;

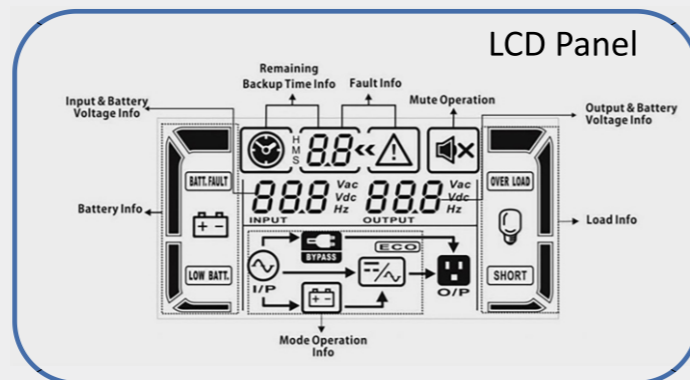
Grid friendly
Energy saving green power with high input power factor and low THDI.

Energy saving
Under normal use, the product will not cause harm to people and the environment.



Main Feature

- True double-conversion
- Output power factor 1
- Output voltage regulation < 1%
- Higher output crest ratio 3:1
- 50Hz/60Hz frequency converter mode
- Programmable power management outlets
- Emergency power off function (EPO)
- Hot swappable battery design
- ECO mode energy saving
- Emergency power off (EPO) function
- Provides over voltage Provides over voltage cutt-off protection and surge immunity by MOV for full time equipment protection
- High power factor charger upto 1000W capacity with very low ripple current when charging battery
- Low input THDi to reduce power system pollution
- Adjustable charging current via LCD panel



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Model CN-UR	1101	1102	1103			
Capacity	1KVA / 1KW	2KVA / 2KW	3KVA / 3KW			
Phase	Single phase with ground					
Input						
Nominal Voltage	100/110/115/120/127 VAC or 200/208/220/230/240 VAC					
Voltage Range	55-150 VAC ± 5% or 110-300 VAC ± 5% @ 50% load; 80-150 VAC ± 5% or 160-300 VAC ± 5% @ 100% load					
Frequency Range	40~70HZ					
Power Factor	≥ 0.99 @ nominal voltage (100% load)					
Harmonic Distortion(THDi)	≤ 5% @ nominal input voltage					
Output						
Output Voltage	100*/110*/115*/120/127 VAC or 200*/208*/220/230/240 VAC					
Voltage Regulation	±1 %					
Frequency	SYN Correction Range	57 ~ 63 Hz or 47 ~ 53 Hz				
	Battery Model	60Hz ± 0.1Hz or 50 Hz ± 0.1Hz				
Current Crest Ratio	3:1 (max.)					
Harmonic Distortion	≤ 2 % THD (Linear Load) ; ≤ 4 % THD (Non-linear Load)					
Transfer Time	City power/Battery	0 ms				
	Inverter/Bypass	4 ms (Typical)				
Waveform (Batt. Mode)	Pure sine wave					
Battery Type						
Battery Type	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah	12 V / 7 Ah	12 V / 9 Ah	
Numbers	2	3	4	6	4	
Typical Recharge Time	3 hours recover to 95% capacity for internal battery@ 2A charging current					
Charging Current (max.)	100/110/115/120 /127 VAC models: default 2A, max. 8A adjustable 200/208/220/230/240 VAC models: default 2A, max. 12A adjustable					
Charging Voltage	27.4VDC ± 1%	41.1VDC ± 1%	54.8VDC ± 1%	82.1VDC ± 1%	82.1VDC ± 1%	
Efficiency						
City Electricity Mode	≥ 89% @ full charged battery		≥ 91% @ full charged battery			
ECO Mode	≥ 96% @ full charged battery					
Battery mode	≥ 88%		≥ 90%			
Control Management						
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC					
Optional SNMP	Power management from SNMP manager and web browser					
Environment						
Relative Humidity	20-90 % RH @ 0- 40°C (non-condensing)					
Noise Level	< 50dB @ 1 m					
Altitude	10% de-rating for over 1000m (The altitude should not exceed 3000m)					
Physical						
Dimension: W*D*H(mm)	438*410*88		438*510*88	438*630*88	438*630*88	
Net Weight(kg)	Without Battery	6.6	7.8	9.6	10.6	12.4
	W/Built-int Battery	11.6	14.1	19.5	23.3	27.5

CN-UR Series High Frequency Online UPS Single Phase In Single Phase Out 6~10KVA



Zero Switch

The UPS will switch to battery mode when the mains power is normal Zero time, which can effectively ensure the safety and reliability of the instrument.



User-friendly design

LCD liquid crystal display, which can display the working status and parameter information of UPS in real time, facilitating user management of UPS;

DSP

DSP digital control technology

All power conversion links such as rectification, inverter, charging, and discharge are digitally controlled.



Can be used with a generator

The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure, stable power supply to the load.



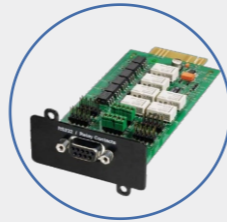
Main Feature

- True double-conversion
- DSP technology guarantees high performance
- Output power factor 1
- Wide input voltage range (110-300 VAC)
- Active input power factor correction 0.99
- 50Hz/60Hz frequency converter mode
- Emergency power off function (EPO)
- Generator compatible
- SNMP/USB/RS-232 communications
- Adjustable battery numbers
- Optional N+X parallel redundancy

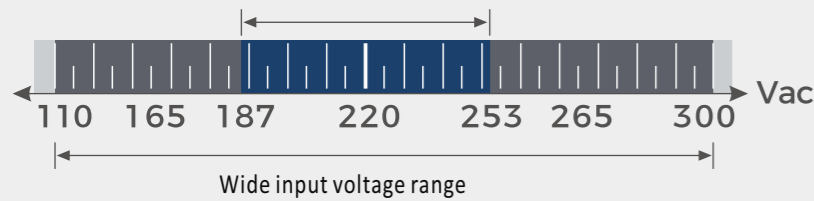
Accessory



SNMP Card



Relay Card



Model CN-UR	1106(L)		1110(L)		
Capacity	6KVA / 6KW		10KVA / 10KW		
Phase	1 phase in / 1 phase out				
Input					
Nominal Voltage	208/220/230/240 VAC				
Voltage Range	110~300VAC ± 3 % at 50% load; 176~300VAC ± 3 % at 100% load				
Frequency Range	46-54 Hz ○ 50 Hz / 56-64 Hz ○ 60 Hz				
Power Factor	≥ 0.99 @ full load				
THDi	<4%@100% Load, <6%@50% Load				
Output					
Output Voltage	208*/220/230/240 VAC				
Voltage Regulation	±1 %				
Frequency	SYN Correction range	46-54 Hz ○ 50 Hz / 56-64 Hz ○ 60 Hz			
	Battery Model	50Hz ± 0.1Hz or 60 Hz ± 0.1Hz			
Current Crest Ratio	3:1(max.)				
Harmonic Distortion	≅ 1% THD (Linear Load), ≅ 4% THD (Non-linear Load)				
Transfer Time	City power/Battery	0 ms			
	Inverter/Bypass	0 ms			
Waveform (Batt. Mode)	Pure Sinewave				
Overload	City power Mode	100%~110%: 10min, 110%~130%: 1min, >130%: 1sec			
	Battery Mode	100%~110%: 30sec, 110%~130%: 10sec, >130%: 1sec			
Battery Type					
Standard Model	Battery Type	12 V / 9 Ah		12 V / 9 Ah	
	Quantity	16	20	16	20
	Typical Recharge Time	9 hours recover to 90% capacity			
	Charging Current (max.)	1 A			
	Charging Voltage	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%
Long-run Model	Battery Type	Depending on applications			
	Quantity	16-20**			
	Charging Current (max.)	4.0A			
	Charging Voltage	(13.65VDC x battery number) ± 1%			
Efficiency					
City power Mode	94%		94%		
ECO Mode	98.5%		98.5%		
Battery Mode	92%		92%		
Display Interface					
LCD	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions				
Control Management					
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC				
Optional SNMP	Support SNMP Internet Management				
Environment					
Relative Humidity	20-90 % RH @ 0- 40°C (Non-condensing)				
Noise Level	<55dB@1m		<58dB@1m		
Physical					
Standard Unit	Dimension: W*D*H(mm)	UPS Unit: 438 x610 x 88 [2U] Battery Pack: 438 x715 x 88 [2U]	UPS Unit: 438 x610 x 88 [2U] Battery Pack: 438 x600 x 133 [2U]	UPS Unit: 438 x610 x 88 [2U] Battery Pack: 438 x715 x 88 [2U]	UPS Unit: 438 x610 x 88 [2U] Battery Pack: 438 x600 x 133 [2U]
	Net Weight(kg)	UPS Unit: 17 Battery Pack: 48	UPS Unit: 17 Battery Pack: 57	UPS Unit: 20 Battery Pack: 53	UPS Unit: 20 Battery Pack: 63
Long Backup Unit	Dimension: W*D*H(mm)	438*610*88[2U]		438*610*88[2U]	
	Net Weight(kg)	17		20	

CN-URI Series High Frequency Online UPS Three Phase In Single Phase Out 10-20KVA



DSP

DSP digital control technology
All power conversion links such as rectification, inverter, charging, and discharge are digitally controlled.



Real time monitoring and alarm
Detect important parameters in real time, and immediately give an alarm if any abnormality is found.



Energy saving
Under normal use, the product will not cause harm to people and the environment.



Load power factor of 0.8
Adapts to the characteristics of most current electrical equipment and increases the load carrying capacity of the machine.

Main Feature

- True double-conversion
- DSP technology guarantees high performance
- Output power factor correction
- Wide input voltage range (60-150 VAC)
- Active input power factor correction 0.99
- 50Hz/60Hz frequency converter mode
- ECO mode operation for energy saving (ECO)
- Emergency power off function (EPO)
- Generator compatible
- Charger capacity expansion to 8A for long-run models
- SNMP/USB/RS-232 communications
- 3-stage extendable charging design for optimized battery performance
- Maintenance bypass available
- Adjustable battery numbers



10KVA Back Panel

1. INTELLIGENT SLOT
2. RS-232
3. EPO
4. USB
5. BATTERY CONNECTOR
6. INPUT BREAKER ON/OFF

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Model CN-UR	3110(L)	3115(L)	3120(L)
Capacity	10KVA / 10KW	15KVA / 15KW	20KVA / 20KW
Input			
Connection Mode	Single Phase + Ground		
Input Voltage	380/400/415VAC		
Voltage Range	285~520VAC@100%Load 176~520VAC@50%Load		
Frequency Range	40~70HZ		
Power Factor	≥0.99		
Output			
Output Voltage	200/208/220/230/240Vac		
Voltage Regulation	±1 %		
Frequency	SYN Correction Range	46~54Hz / 56~64Hz	
	Battery Model	50Hz ± 0.1Hz / 60Hz ± 0.1Hz	
Distortion (THDU)	≤2%(Linear load) ≤3%(Non-liner load)		
Peak Coefficient	≥3:1		
Overload Capacity	110%,convey to bypass after 1h;125%,convey to bypass after 10min;150%,convey to bypass after 1min.		
Transfer Time	City power/Battery	0 ms	
	Inverter/Bypass	0 ms	
Battery Type			
Quantity	20	32-40 optional	
Charging Current	1A/2A/4A/6A/12A settable		
Battery Mode	Depends on the applicant		
Efficiency			
City Electricity Mode	96		
Display Interface			
LCD/LED	Loading Size, Battery Capacity, City Electricity Mode, Battery Mode, Bypass Mode, Fault Indication		
Control Management			
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8/10, Linux and MAC		
Optional SNMP	Support SNMP Internet Management		
Environment			
Temperature	0-40°C		
Relative Humidity	0-95% (Non Condensing)		
Noise Level	< 62dB@1m	< 65dB@1m	
Physical			
Dimension: W*D*H(mm)	438*680*133		438*680*266
Net Weight(kg)	29		30

CN-UR Series High Frequency Online UPS

Three Phase In Three Phase Out

10~60KVA

Zero Switch

The UPS will switch to battery mode when the mains power is normal Zero time, which can effectively ensure the safety and reliability of the instrument.

Active Input Power Factor Correction (PFC)

Digital control of the active power factor correction technology is used to achieve an input power factor of 0.99 or higher to avoid pollution of the grid environment and to save energy and reduce system costs.

Load power factor of

Adapts to the characteristics of most current carrying capacity of the machine.

Can be used with a generator

The wide range of input voltages and frequencies isolates the bad power generated by the generator to provide a pure, stable power supply to the load.

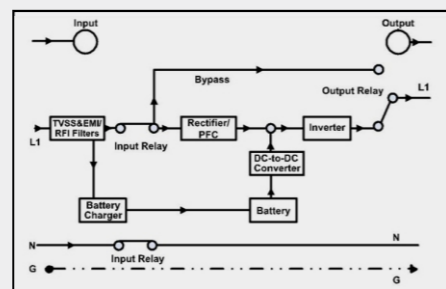


Main Feature

- True double-conversion
- LCD screen auto-rotates (only available for 10K-30K models)
- DSP technology guarantees high performance
- Output power factor 1.0
- With Power Factor Correction
- 50Hz/60Hz frequency converter mode
- ECO mode efficiency (ECO)
- Emergency power off function (EPO)
- Support generator
- Support for two inputs
- Three stage charging design to optimize battery performance
- Adjustable number of batteries for extended operation
- Support for shared battery packs
- Optional isolation transformer
- Optional parallel operation
- NMP+USB+RS-232 multiple communications
- Power walk-in function

Operating Principle

The Operating Principle of the UPS is Shown as below



HEFEI COOLNET POWER CO.,LTD

Model CN-UR	3310(L)	3315(L)	3320(L)	3330(L)	3340(L)	3360(L)
Capacity	10kVA/10kW	15kVA/15kW	20kVA/20kW	30kVA/30kW	40kVA/40kW	60kVA/60kW
Parallel capacity	4 max					
Input						
Connection Mode	Three in, three out					
Rated Voltage	3 x 380 VAC(3PH+N)					
Voltage Range	190-520 VAC (three phase) @ 50% load. -305-478 VAC (3 phase) @ 100% load					
Frequency Range	46~54Hz / 56~64Hz					
Power Factor	≥ 0.99 100% load					
Output						
Rated voltage	3 x 360*/380/400/415 VAC(3PH+N)					
Output Accuracy (Batt. Mode)	±1%					
Frequency	SYN Correction range	46~54Hz / 56~64Hz				
	Battery Model	50 Hz±0.1 Hz / 60 Hz±0.1 Hz				
Current Crest Ratio	3:1 (max.)					
Harmonic Distortion	≤1% THD (Linear Load) ≤3% THD (Non-linear Load)					
Transfer Time	City power/Battery	0 ms				
	Inverter/Bypass	0 ms				
Waveform (Batt. Mode)	Pure sine wave					
Overload	City Electricity Mode	100-110% 60 minutes, 110-125% 10 minutes, 125%-150% 1 minute; >150% Immediate protection				
	Battery Mode	100-110% 60 min, 110-125% 10 min, 125%-150% 1 min; >150% Immediate protection				
Battery Type						
Battery Type	Multiple battery boxes to suit the application					
Quantity	20	32~40 (Adjustable)				
Maximum Charging Current	1A~12A(Adjustable)				1A~16A (Adjustable)	1A~18A (Adjustable)
Charging Voltage	±13.65 VDC x N(N=10)	±13.65 V x N(N=16~20)				
Efficiency						
City Electricity Mode	≥95.50%					
ECO Mode	≥98.50%					
Battery Mode	≥94.50%					
Control Management						
Smart RS-232/USB	Support for Windows® Series, Linux and MAC					
Optional SNMP	Power management support for SNMP management and network management					
Environment						
Relative Humidity	0-95% relative humidity (non condensing) and temperature 0-40°C					
Noise Level	<62dB@1m	<65dB@1m	<65dB@1m	<65dB@1m	<70dB@1m	<70dB@1m
Physical						
Dimension:W*D*H(mm)	680*438*133 [3U]				797*438*176 [4U]	
Net Weight(kg)	27	30	32	40	45	