

LIFEBOAT AND RESCUE BOAT ACCESSORIES

CUHD-All/302II-2 Marine AC  
Uninterruptible Power Supply

CUHD-All/302II-2 Marine AC uninterruptible power supply: This series of products comply with the specifications and standards of domestic and international marine industry related electrical equipment. On-li...

ISO9001 Supplier

Class Certificate

Export Supply



Key Highlights

Category Lifeboat And Rescue Boat Accessories

Standard ISO

Weight / Size This series of products can provide all elements of function, size and i...

Certificate CCS

We can supply according to your requirement, drawings, class certificate needs, and delivery schedule.

| Technical Specifications |                                      |               |                                                                                      |
|--------------------------|--------------------------------------|---------------|--------------------------------------------------------------------------------------|
| Category                 | Lifeboat And Rescue Boat Accessories | Model / SKU   | CUHD-A-302-2-Marine-AC-Uninterruptible-Power-Supply                                  |
| Standard                 | ISO                                  | Weight / Size | This series of products can provide all elements of function, size and installation. |
|                          |                                      |               |                                                                                      |

|         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |             |     |
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| Surface | <p>Model 1KVA 2KVA 3KVA 6KVA<br/>10KVA 15KVA 20KVA 25KVA<br/>30KVA Operation mode Double<br/>conversion online Isolation method<br/>Transformer isolation Capacity<br/>(KW) 0.8 1.6 2.4 4.8 8 12 16 20 24<br/>Input Rated voltage<br/>( 110VAC/220VAC/380VAC/440V<br/>AC Can choose)<math>\pm 20\%</math> Rated<br/>frequency 50HZ/60HZ Phase<br/>Single-Phase Bypass Conversion<br/>method Automatic and manual<br/>switching Output Phase Single-<br/>Phase Power factor 0.8 Voltage<br/>accuracy<br/>( 110VAC/220VAC/380VAC/440V<br/>AC可以选择)<math>\pm 2\%</math> Rated frequency<br/>105%~150%时 30S To bypass<br/>mode , &gt; 150%时 300ms Bypass<br/>and alarm Rated frequency<br/>50HZ/60HZ Output waveform Pure<br/>sine wave Peak load ratio 3:1%<br/>Switching time Bypass cut<br/>inverter : <math>\leq 4\text{ms}</math> Boat cut battery :<br/>0ms 0ms Harmonic distortion<br/>(Linear load<math>\leq 3\%</math> ; Non-linear<br/>load<math>\leq 5\%</math> Features Protection Input<br/>under-voltage, input over-current,<br/>input over-temperature, input over-<br/>current, input short-circuit<br/>protection Communication<br/>Standard RS232, optional RS485<br/>Dry contact Main power supply,<br/>battery discharge, bypass power<br/>supply, low battery, low insulation,<br/>ESD battery trip, UPS system<br/>failure, maintenance bypass,<br/>public alarm Meter Output voltage,<br/>output current, output insulation<br/>meter Instruction Operating status<br/>indication, sound and light alarm,<br/>mute Charge Charging mode<br/>Constant current first, then<br/>constant voltage Recharging<br/>current 0.1C~0.15C(Adjust<br/>according to battery capacity<br/>setting ) Charging time <math>\leq 10</math> Hours<br/>Battery Type of battery Sealed<br/>lead-acid surface maintenance<br/>battery Battery voltage 24VDC<br/>48VDC 72VDC 192VDC 216VDC<br/>Battery capacity 2x60AH 4x50AH</p> | Certificate | CCS |
|---------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----|

6x50AH 16x38AH Based on customer's needs Backup time  $\geq 30$  Minutes ( Can be customized ) Structure Box size (WxDxH)mm 550x320x550 600x600x1600 500x250x650 800x700x2000 800x800x2000 Weight (kg) 81 210 246 495 325 446 468 539 586 Installation method Wall-mounted Floor-standing Protection class IP22/IP23/(IP44 Can be customized ) Cabinet color RAL7035(Other colors can be customized ) Environmental parameters Operating ambient temperature  $-0^{\circ}\text{C}\sim+50^{\circ}\text{C}$  Operating environment humidity  $0\sim95\%$  ( Non-condensing ) Cooling method Forced air cooling Standards and certifications Standard CCS GD22-2015、IEC62040、 IEC61000、 IEC60068-2 Certification CCS Type approval Model 6KVA 10KVA 15KVA 20KVA 25KVA 30KVA 40KVA Operation mode Double conversion online Isolation method Transformer isolation Capacity (KW) 4.8 8 12 16 20 24 32 Input Rated voltage ( 110VAC/220VAC/380VAC/440V AC Can choose) $\pm 20\%$  Rated frequency 50HZ/60HZ Phase Single-Phase Bypass Conversion method Automatic and manual switching Output Phase Single-Phase Power factor 0.8 Voltage accuracy ( 110VAC/220VAC/380VAC/440V AC Can choose) $\pm 2\%$  Rated frequency  $105\%\sim 150\%$ 时 30S To bypass mode ,  $> 150\%$ 时 300ms Bypass and alarm Rated frequency 50HZ/60HZ Output waveform Pure sine wave Peak load ratio 3:1% Switching time 0ms Harmonic distortion (Linear load $\leq 3\%$  ; Non-linear load $\leq 5\%$  Features Protection Input under-voltage, input over-current, input over-temperature, input over-

current, input short-circuit protection Communication Standard RS232, optional RS485, SNMP card Dry contact Main power supply, battery discharge, bypass power supply, low battery, low insulation, ESD battery trip, UPS system failure, maintenance bypass, public alarm Meter Output voltage, output current, output insulation meter Instruction Operating status indication, sound and light alarm, mute Charge Charging mode Constant current first, then constant voltage Recharging current 0.1C~0.15C(Adjust according to battery capacity setting ) Charging time ≤10 hours Battery Type of battery Sealed lead-acid surface maintenance battery Battery voltage 192VDC 216VDC Backup time ≥30 Minutes ( Can be customized ) Structure Box size (WxDxH)mm 650x700x2000 800x700x2000 800x800x2000 Weight (kg) 501 331 452 474 545 595 706 Installation method Floor-standing Protection class IP22/IP23/(IP44 Can be customized ) Cabinet color RAL7035(Other colors can be customized ) Environmental parameters Operating ambient temperature -0°C~+50°C Operating environment humidity 0~95% ( Non-condensing ) Cooling method Forced air cooling Standards and certifications Standard CCS GD22-2015、IEC62040、 IEC61000、 IEC60068-2 Certification CCS Type approval

#### Warranty

12 Months unless specified otherwise

#### Origin

China

#### CONTENTS

■ CUHD-All/302II-2 Marine AC uninterruptible power supply:

■ Technical data:

**CUHD-All/302II-2 Marine AC uninterruptible power supply:**

This series of products comply with the specifications and standards of domestic and international marine industry related electrical equipment.

On-line double conversion design provides the best power supply quality and protection for the load.

1. Adopt DSP digital control technology, fast control response and high reliability.
2. Built-in isolation transformer design, strong shock resistance, can effectively suppress high frequency noise and ensure reliable operation of the load; isolate dangerous voltages to ensure personnel safety
3. The structure adopts the forward wind and the wind, and the front maintenance design makes testing and maintenance more convenient.
4. Intelligent heat dissipation design: The fan automatically matches the speed with the load, effectively reducing noise and extending the life of the fan.
5. Multiple passive dry contact outputs can monitor all states that may occur during UPS operation.
6. All-round protection function: with input overvoltage and undervoltage, phase loss, output overload, short circuit, battery overvoltage, overtemperature and other protection functions.
7. Rich intelligent communication interface: RS232, RS485, SNMP intelligent slot.
8. This series of products can provide all elements of function, size and installation.
9. All series of AC UPS power supplies have been approved by China Classification Society.

## Technical data:

|                  |                   |                                               |      |      |      |           |           |           |           |           |
|------------------|-------------------|-----------------------------------------------|------|------|------|-----------|-----------|-----------|-----------|-----------|
| Model            |                   | 1KVA                                          | 2KVA | 3KVA | 6KVA | 10K<br>VA | 15K<br>VA | 20K<br>VA | 25K<br>VA | 30K<br>VA |
| Operation mode   |                   | Double conversion online                      |      |      |      |           |           |           |           |           |
| Isolation method |                   | Transformer isolation                         |      |      |      |           |           |           |           |           |
| Capacity (KW)    |                   | 0.8                                           | 1.6  | 2.4  | 4.8  | 8         | 12        | 16        | 20        | 24        |
| Input            | Rated voltage     | ( 110VAC/220VAC/380VAC/440VAC Can choose)±20% |      |      |      |           |           |           |           |           |
|                  | Rated frequency   | 50HZ/60HZ                                     |      |      |      |           |           |           |           |           |
|                  | Phase             | Single-Phase                                  |      |      |      |           |           |           |           |           |
| Bypass           | Conversion method | Automatic and manual switching                |      |      |      |           |           |           |           |           |

|           |                     |                                                                                                                                                                |                |        |             |                           |     |        |              |     |
|-----------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------|-------------|---------------------------|-----|--------|--------------|-----|
| Output    | Phase               | Single-Phase                                                                                                                                                   |                |        |             |                           |     |        |              |     |
|           | Power factor        | 0.8                                                                                                                                                            |                |        |             |                           |     |        |              |     |
|           | Voltage accuracy    | ( 110VAC/220VAC/380VAC/440VAC可以选择)±2%                                                                                                                          |                |        |             |                           |     |        |              |     |
|           | Rated frequency     | 105%~150%时 30S To bypass mode , > 150%时 300ms Bypass and alarm                                                                                                 |                |        |             |                           |     |        |              |     |
|           | Rated frequency     | 50HZ/60HZ                                                                                                                                                      |                |        |             |                           |     |        |              |     |
|           | Output waveform     | Pure sine wave                                                                                                                                                 |                |        |             |                           |     |        |              |     |
|           | Peak load ratio     | 3:1%                                                                                                                                                           |                |        |             |                           |     |        |              |     |
|           | Switching time      | Bypass cut inverter : ≤4ms<br>Boat cut battery : 0ms                                                                                                           |                |        |             | 0ms                       |     |        |              |     |
|           | Harmonic distortion | (Linear load≤3% ; Non-linear load≤5%                                                                                                                           |                |        |             |                           |     |        |              |     |
| Features  | Protection          | Input under-voltage, input over-current, input over-temperature, input over-current, input short-circuit protection                                            |                |        |             |                           |     |        |              |     |
|           | Communication       | Standard RS232, optional RS485                                                                                                                                 |                |        |             |                           |     |        |              |     |
|           | Dry contact         | Main power supply, battery discharge, bypass power supply, low battery, low insulation, ESD battery trip, UPS system failure, maintenance bypass, public alarm |                |        |             |                           |     |        |              |     |
|           | Meter               | Output voltage, output current, output insulation meter                                                                                                        |                |        |             |                           |     |        |              |     |
|           | Instruction         | Operating status indication, sound and light alarm, mute                                                                                                       |                |        |             |                           |     |        |              |     |
| Charge    | Charging mode       | Constant current first, then constant voltage                                                                                                                  |                |        |             |                           |     |        |              |     |
|           | Recharging current  | 0.1C~0.15C(Adjust according to battery capacity setting )                                                                                                      |                |        |             |                           |     |        |              |     |
|           | Charging time       | ≤10 Hours                                                                                                                                                      |                |        |             |                           |     |        |              |     |
| Battery   | Type of battery     | Sealed lead-acid surface maintenance battery                                                                                                                   |                |        |             |                           |     |        |              |     |
|           | Battery voltage     | 24VDC                                                                                                                                                          | 48VDC          | 72VDC  | 192VDC      |                           |     | 216VDC |              |     |
|           | Battery capacity    | 2x60AH                                                                                                                                                         | 4x50AH         | 6x50AH | 16x38AH     | Based on customer's needs |     |        |              |     |
|           | Backup time         | ≥30 Minutes ( Can be customized )                                                                                                                              |                |        |             |                           |     |        |              |     |
| Structure | Box size (WxDxH)mm  | 550x320x550                                                                                                                                                    | 600x600x1600   |        | 500x250x650 | 800x700x2000              |     |        | 800x800x2000 |     |
|           | Weight (kg)         | 81                                                                                                                                                             | 210            | 246    | 495         | 325                       | 446 | 468    | 539          | 586 |
|           | Installation method | Wall-mounted                                                                                                                                                   | Floor-standing |        |             |                           |     |        |              |     |
|           | Protection class    | IP22/IP23/(IP44 Can be customized )                                                                                                                            |                |        |             |                           |     |        |              |     |
|           | Cabinet color       | RAL7035(Other colors can be customized )                                                                                                                       |                |        |             |                           |     |        |              |     |





|                              |                                |                                                           |  |              |     |        |              |     |     |
|------------------------------|--------------------------------|-----------------------------------------------------------|--|--------------|-----|--------|--------------|-----|-----|
| Charge                       | Charging mode                  | Constant current first, then constant voltage             |  |              |     |        |              |     |     |
|                              | Recharging current             | 0.1C~0.15C(Adjust according to battery capacity setting ) |  |              |     |        |              |     |     |
|                              | Charging time                  | ≤10 hours                                                 |  |              |     |        |              |     |     |
| Battery                      | Type of battery                | Sealed lead-acid surface maintenance battery              |  |              |     |        |              |     |     |
|                              | Battery voltage                | 192VDC                                                    |  |              |     | 216VDC |              |     |     |
|                              | Backup time                    | ≥30 Minutes ( Can be customized )                         |  |              |     |        |              |     |     |
| Structure                    | Box size (WxDxH)mm             | 650x700x2000                                              |  | 800x700x2000 |     |        | 800x800x2000 |     |     |
|                              | Weight (kg)                    | 501                                                       |  | 331          | 452 | 474    | 545          | 595 | 706 |
|                              | Installation method            | Floor-standing                                            |  |              |     |        |              |     |     |
|                              | Protection class               | IP22/IP23/(IP44 Can be customized )                       |  |              |     |        |              |     |     |
|                              | Cabinet color                  | RAL7035(Other colors can be customized )                  |  |              |     |        |              |     |     |
| Environmental parameters     | Operating ambient temperature  | -0℃~+50℃                                                  |  |              |     |        |              |     |     |
|                              | Operating environment humidity | 0~95% ( Non-condensing )                                  |  |              |     |        |              |     |     |
|                              | Cooling method                 | Forced air cooling                                        |  |              |     |        |              |     |     |
| Standards and certifications | Standard                       | CCS GD22-2015、 IEC62040、 IEC61000、 IEC60068-2             |  |              |     |        |              |     |     |
|                              | Certification                  | CCS Type approval                                         |  |              |     |        |              |     |     |