

LIFEBOAT AND RESCUE BOAT ACCESSORIES

SCT-24200-230 Marine Charging Power Supply

ISO9001 Supplier

Class Certificate

Export Supply

SCT-24200-230 Marine Charging Power Supply SC series marine power supplies are switch-mode charging power supplies applying high-frequency PWM pulse-duration modulation technology and mainly composed...



Key Highlights

|               |                                                                             |
|---------------|-----------------------------------------------------------------------------|
| Category      | Lifeboat And Rescue Boat Accessories                                        |
| Standard      | GB                                                                          |
| Material      | Power supplies meet all specifications and rules of China Classification... |
| Weight / Size | 500Vac/10mA/1 min Insulation resistance ≥10MΩ Other Overall dimensions ...  |
| 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 | SCT-24200-230-Marine-Charging-Power-Supply                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Standard                 | GB                                                                                                                                                                                        | Material    | Power supplies meet all specifications and rules of China Classification Society, comply with the basic standards of marineelectric andspecifications, pass Type Approval of China Classification Society.and accord with the relevant regulations of GB7061-98 General Specification for Low-Voltage Switchgear and Controlgear Assemblies in Ships GB/T14548-93 General Specification for Marine Semiconductor Convertors and Rules for Classification of Sea-going Steel Ships. |
| Weight / Size            | 500Vac/10mA/1 min Insulation resistance ≥10MΩ Other Overall dimensions 310*190*90mm 410*260*110mm 530*280*230mm Installation dimensions 295*160mm 385*234mm 510*200mm Weight 5Kg 8Kg 25Kg | Certificate | CCS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Warranty                 | 12 Months unless specified otherwise                                                                                                                                                      | Origin      | China                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

SCT-24200-230 Marine Charging Power Supply

SCT-2460-222X

船用直流产品  
Marine DC products

系列  
Series

输出DC电压  
Output DC voltage

输出电流  
Output current

后缀说明  
Explanation for suffixes

T 充电器  
T chargers

S 整流器  
S rectifiers

DC12V

DC24V

DC48V

DC110V

DC220V

2A、5A

10A、20A、30A

40A、60A、80A

100A、125A

160A、200A

第1位数字表示输入电压等级:  
The 1st digit represents input voltage grade:  
1表示AC110V 2表示AC220V 3表示AC380V 4表示AC440V  
1 represents AC 110V 2 represents AC 220V 3 represents AC 380V 4 represents AC 440V

第2位数字表示输入相数等级:  
The 2nd digit represents the grade of input phase number:  
2表示单相 3表示三相  
2 represents single phase 3 represents three phases

第3位数字表示外壳防护等级:  
The 3rd digit represents shell protection grade:  
0表示IP20 2表示IP22  
0 represents IP 20 2 represents IP 22

第4位代码表示产品识别码, 工厂内部使用, 客户不需参考  
The 4th code represents product identification number. Used in the factory, it does not serve as a reference for customers.

SC series marine power supplies are switch-mode charging power supplies applying high-frequency PWM pulse-duration modulation technology and mainly composed of IGBT, fieleffect power tube and integrated PWM controller. The complete machine adoptsintelligent cooling.The reliable operation of power supplies can be ensured even in the hottest cabin. Power supplies meet all specifications and rules of China Classification Society, comply with the basic standards of marineelectric andspecifications, pass Type Approval of China Classification Society.and accord with the

relevant regulations of GB7061-98 General Specification for Low-Voltage Switchgear and Controlgear Assemblies in Ships GB/T14548-93 General Specification for Marine Semiconductor Convertors and Rules for Classification of Sea-going Steel Ships.

| Model SCT- |                                             | 2420-                                                                                    |     | 2430-  |      | 2440- |     | 2460- |     | 2480- |     | 24100- |     | 24200- |     |
|------------|---------------------------------------------|------------------------------------------------------------------------------------------|-----|--------|------|-------|-----|-------|-----|-------|-----|--------|-----|--------|-----|
| Input      | Input rated                                 | ( 220 ) single-phase 220Vac                                                              |     |        |      |       |     |       |     |       |     |        |     |        |     |
|            | voltage                                     | ( 230 three-phase 220Vac                                                                 |     |        |      |       |     |       |     |       |     |        |     |        |     |
|            | ( ±15% )                                    | ( 330 ) three-phase 330Vac                                                               |     |        |      |       |     |       |     |       |     |        |     |        |     |
|            | ( 430 ) three-phase 440Vac                  |                                                                                          |     |        |      |       |     |       |     |       |     |        |     |        |     |
|            | Input frequency range                       | 45~65Hz                                                                                  |     |        |      |       |     |       |     |       |     |        |     |        |     |
|            | Maximum input current                       | 220                                                                                      | 6A  | 220    | 8.5A | 220   | 9A  | 220   | 20A | 220   | 23A | 220    | 25A | 220    | 38A |
|            |                                             | 230                                                                                      |     | 230    |      | 230   |     | 230   |     | 230   |     | 230    |     | 230    |     |
| 330        |                                             | < 3A                                                                                     | 330 | < 4.2A | 330  | < 5A  | 330 | < 9A  | 330 | < 11A | 330 | < 13A  | 330 | < 26A  |     |
| 430        |                                             |                                                                                          | 430 |        | 430  |       | 430 |       | 430 |       | 430 |        | 430 |        |     |
| Efficiency | 85%                                         |                                                                                          |     |        |      |       |     |       |     |       |     |        |     |        |     |
| Out put    | Output float charge voltage                 | 26.4Vdc                                                                                  |     |        |      |       |     |       |     |       |     |        |     |        |     |
|            | Output average charge voltage               | 28.2Vdc                                                                                  |     |        |      |       |     |       |     |       |     |        |     |        |     |
|            | Average and float charge conversion current | 1/10 of output current±1A                                                                |     |        |      |       |     |       |     |       |     |        |     |        |     |
|            | Maximun output current                      | 20±1A                                                                                    |     | 30±1A  |      | 40±1A |     | 60±1A |     | 80±1A |     | 100±1A |     | 200±1A |     |
|            | Stabilized voltage precision                | ±1%                                                                                      |     |        |      |       |     |       |     |       |     |        |     |        |     |
|            | Output ripple and noise                     | VPP≤500mv                                                                                |     |        |      |       |     |       |     |       |     |        |     |        |     |
| Pttection  | Output overvoltage protection               | 30±1Vdc                                                                                  |     |        |      |       |     |       |     |       |     |        |     |        |     |
|            | Output undervoltage alarm                   | 21±1Vdc                                                                                  |     |        |      |       |     |       |     |       |     |        |     |        |     |
|            | Overheat protection                         | 85±5℃ ( Temperature inside the machine)                                                  |     |        |      |       |     |       |     |       |     |        |     |        |     |
|            | Output short circuit protection             | The device is free from damage after short circuit and antomatically                     |     |        |      |       |     |       |     |       |     |        |     |        |     |
|            |                                             | recovers after the removal of short circuit                                              |     |        |      |       |     |       |     |       |     |        |     |        |     |
| Function   | Output Alarm port                           | The relay completes contact action when input poer supply is normal and the device works |     |        |      |       |     |       |     |       |     |        |     |        |     |
|            |                                             | The relay resets in the case of device fault(maximum contact voltage and current 32V 1A) |     |        |      |       |     |       |     |       |     |        |     |        |     |

|                                         |                         |                                           |                                         |                                          |
|-----------------------------------------|-------------------------|-------------------------------------------|-----------------------------------------|------------------------------------------|
| Enviroment                              | Operating temperature   | 0°C~+55°C                                 |                                         |                                          |
|                                         | Storage temperature     | -10°C~+70°C                               |                                         |                                          |
|                                         | Relative temperature    | ≤95% of salt mist, oil mist and mold      |                                         |                                          |
|                                         | Heat emission method    | Air Cooling                               |                                         |                                          |
|                                         | Atmospheric pressure    | 86kPa~106kPa                              |                                         |                                          |
| Safety                                  | Dielectric strength     | Input single-phase and three-phase 220Vac |                                         | Input three-phase and three-phase 220Vac |
| Regulation                              |                         | Input to output: 1500Vac/10mA/1 min       |                                         | Input to output: 2500Vac/10mA/1 min      |
| Input to the ground: 1500Vac/10mA/1 min |                         |                                           | Input to the ground: 1500Vac/10mA/1 min |                                          |
| Output to the ground: 500Vac/10mA/1 min |                         |                                           | Output to the ground: 500Vac/10mA/1 min |                                          |
| Insulation resistance                   | ≥10MΩ                   |                                           |                                         |                                          |
| Other                                   | Overall dimnensions     | 310*190*90mm                              | 410*260*110mm                           | 530*280*230mm                            |
|                                         | Installation dimensions | 295*160mm                                 | 385*234mm                               | 510*200mm                                |
|                                         | Weight                  | 5Kg                                       | 8Kg                                     | 25Kg                                     |

