

Jinbo Marine

Marine & Offshore Equipment Datasheet

PRODUCT DATASHEET

LIFEBOAT AND RESCUE BOAT ACCESSORIES

SCT-2420-220 Marine Charging Power Supply

ISO9001 Supplier

Class Certificate

Export Supply

How to Choose model: SCT-2420-220 Marine Charging Power Supply: SC series marine power supplies are switch-mode charging power supplies applying high-frequency PWM pulse-duration modulation technology...



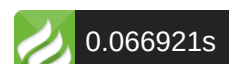
Key Highlights

Category	Lifeboat And Rescue Boat Accessories
Standard	DIN
Weight / Size	500Vac/10mA/1 min Insulation resistance $\geq 10M\Omega$ Other Overall dimensions ...
Certificate	CCS, BV, RINA

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-2420-220-Marine-Charging-Power-Supply
Standard	DIN	Weight / Size	500Vac/10mA/1 min Insulation resistance $\geq 10M\Omega$ 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, BV, RINA	Warranty	12 Months unless specified otherwise
Origin	China		



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- Range of input voltage:
- SCT-2420-220 Marine Charging Power Supply:
- Model SCT- 2420- 2430- 2440- 2460- 2480- 24100- 24200- Input Input rated voltage (±15%) (220) single-phase 220Vac (230 three-phase 220Vac (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 230 230 230 230 230 230 330 < 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 Maximum 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 Ptection Output overvoltage protection 30±1Vdc Output undervoltage alarm 21±1Vdc Overheat protection 85±5°C (Temperature inside the machine) Output short circuit protection The device is free from damage after short circuit and automatically 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 Regulation Dielectric strength Input single-phase and three-phase 220Vac Input three-phase and three-phase 220Vac 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 dimensions 310*190*90mm 410*260*110mm 530*280*230mm Installation dimensions 295*160mm 385*234mm 510*200mm Weight 5Kg 8Kg 25Kg

How to Choose model:

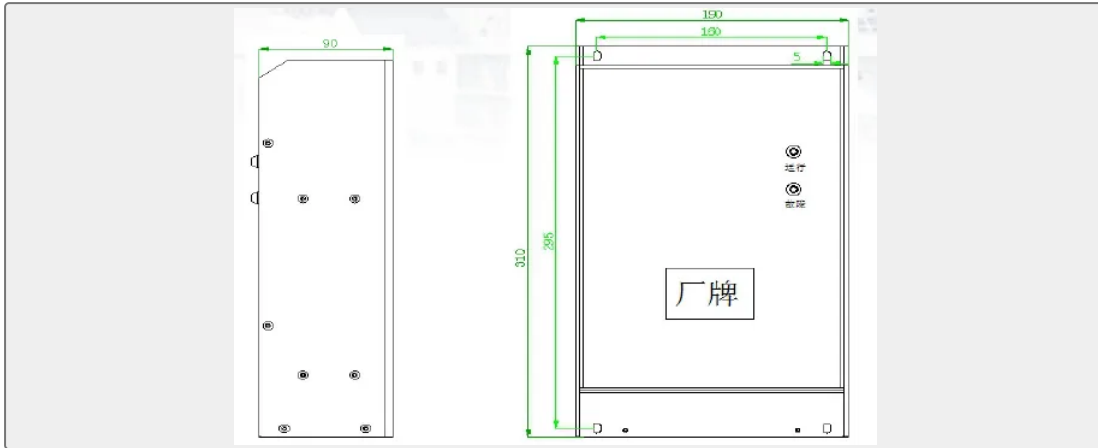
SCT - 2460 - 222X

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	DC12V	2A、5A	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	
S 整流器 S rectifiers	DC24V	10A、20A、30A	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	
	DC48V	40A、60A、80A	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	
	DC110V	100A、125A	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.	
	DC220V	160A、200A		

SCT-2420-220 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 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  0.066921s

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 Seel Ships



Range of input voltage:

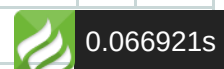
Range of Voltage Input" indicated in the product manual refers to the range of normal operating voltage under the condition of ensuring all performance indicators of power supplies. The power module will encounter unstable performance or be damaged if input voltage exceeds this range.This kind of phenomena should be avoided.

Output power and heat emission conditions:

The output power of power supplies refers to output power in the case of meeting certain heat emission conditions. Maximum operating temperature generally refers to maximum ambient temperature (or shell temperature) under the condition of leaving enough heat emission space (Air inlet and outlet have a space of no less than 200mm) around power supplies and ensuring the performance indicators of power supplies. Forced ventilation should be applied to the installation environment when necessary.

In general, the ambient operating temperature of power supplies in the absence of heat emission is 20 to 40°C lower than the normal maximum operating temperature of power supplies, which depends on season and output power of power supplies. When using products, customers are advised to adopt the method of corresponding derating according to output power and heat emission conditions to prolong the service life of products.

Model SCT-		2420-	2430-	2440-	2460-	2480-	24100-	24200-							
Input	Input rated voltage (±15%)	(220) single-phase 220Vac (230 three-phase 220Vac (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%													



Output	Output float charge voltage	26.4Vdc						
	Output average charge voltage	28.2Vdc						
	Average and float charge conversion current	1/10 of output current \pm 1A						
	Maximum output current	20 \pm 1A	30 \pm 1A	40 \pm 1A	60 \pm 1A	80 \pm 1A	100 \pm 1A	200 \pm 1A
	Stabilized voltage precision	\pm 1%						
	Output ripple and noise	VPP \leq 500mv						
Protection	Output overvoltage protection	30 \pm 1Vdc						
	Output undervoltage alarm	21 \pm 1Vdc						
	Overheat protection	85 \pm 5 $^{\circ}$ C (Temperature inside the machine)						
	Output short circuit protection	The device is free from damage after short circuit and automatically recovers after the removal of short circuit						
Function	Output Alarm port	The relay completes contact action when input power supply is normal and the device works The relay resets in the case of device fault(maximum contact voltage and current 32V 1A)						
Environment	Operating temperature	0 $^{\circ}$ C~+55 $^{\circ}$ C						
	Storage temperature	-10 $^{\circ}$ C~+70 $^{\circ}$ C						
	Relative temperature	\leq 95% of salt mist, oil mist and mold						
	Heat emission method	Air Cooling						
	Atmospheric pressure	86kPa~106kPa						
Safety Regulation	Dielectric strength	Input single-phase and three-phase 220Vac	Input three-phase and three-phase 220Vac					
		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	\geq 10M Ω						
Other	Overall dimensions	310*190*90mm	410*260*110mm	530*280*230mm				
	Installation dimensions	295*160mm	385*234mm	510*200mm				
	Weight	5Kg	8Kg	25Kg				