OMRON

型 S8TS 开关电源

CHN 连接说明书

感谢您购买了S8TS。 此说明书内记载了S8TS使用时的功能、性能以及使用方法。 •请由具备电气知识的专业人员来操作S8TS。

•请充分阅读并理解本使用说明书的内容之后,再正确使用本

请妥善保管本使用说明书以便作参考。

连接使用时,请务必结合「使用说明书」阅读。

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CHN 安全注意

(1) 安装环境

避免冲击和振动。触电断路器装置可能会产生振动, 本产品应置于尽可能远离噪音源的地方以避免冲击或 振动。并且,请将连接器盖(型PFP-M)安装到本体的

为避免因负荷异常所引起的配线材料冒烟,着火,请 使用下表的线材。 推荐使用线径:

型号		推荐线径
S8TS-06024 S8TS-03012	两台并联	AWG14~18 (横截面积0.823~2.081mm²)
	三台并联	AWG14~16 (横截面积1.309~2.081mm²)
	四台并联	AWG14 (横截面积 2.081mm²)
	两台并联	AWG12~18 (横截面积0.823~3.309mm²)
S8TS-06024F S8TS-03012F	三台并联	AWG12~16 (横截面积1.309~3.309mm²)
	四台并联	AWG12~14 (横截面积2.081~3.309mm²)

(3)总线连接器的安装使用

请不要让总线连接器受到诸如掉落等强烈的冲击。 (4)多台连接后,请不要调整输出电压。否则输出电压

(5)详细内容请参考商品目录。

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MODEL **S8TS** SWITCHING POWER SUPPLY

EN Notice in relation to the Multi-Connect

Thank you for purchasing the S8TS.
This Instruction Manual describes the functions, performance, and application methods requied to use the S8TS.
*Make sure that a specialist with electric knowledge operates the S8TS.
*Read and understand this Instruction Manual, and use the product with neough understanding.

Keep this Instruction Manual close at hand and use it for reference during

When using the multi-connecting type,read the "INSTRUCTION MANUAL" for single type together without fail.

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EN Precautions for Safe Use

(1) Installing Environment

Avoid places subject to shock or vibration. Particularly, since a device such as a conductor may become the vibration source, set the Power Supply as far as possible from the vibration source. Besides, install the end plate (PFP-M model) to both ends of the power supply.

(2) Wiring

Use the following material to the wire to be applied to the product for preventing from the occurrence of the smoking or ignition caused by the abnormal load. Recommended wire type:

Recommended Wire Type AWG14 to 18 (Cross-sectional Area 0.823 to 2.081mm or three paralle S8TS-06024 AWG14 to 16 (Cross-sectional Area 1.309 to 2.081mm AWG14 (Cross-sectional Area 2.081mm²) AWG12 to 18 (Cross-sectional Area 0.823 to 3.309mn nnected units S8TS-06024F S8TS-03012F AWG12 to 16 (Cross-sectional Area 1.309 to 3.309mm connected units AWG12 to 14 (Cross-sectional Area 2.081 to 3.309mm

(3) Handling of Bus Line Connector

Do not give too strong shock to the Bus line connector such as dropping off.

(4) Do not adjust the voltage after multi-connecting the unit. Failure to do so could cause the instability to the output voltage.

(5) See product catalogue for details.

警告标识的含义

△ 注意

苦操作不当的话有可能发生轻中度伤害或设备损

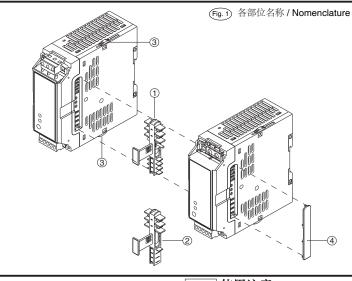
• 警告标识

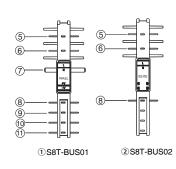
△ 注意	
• 可能会引起触电、起火或产品损坏。当连接多台电源的时候,请将滑块和导轨固定销锁上。	Ø
• 当连接多台电源时,只能在一台电源上进行输入配 线。配线错误时,内部的输入会发生短路,本体发 生破损。	Q
• 通电状态时请勿连结、分解电源。有触电的危险。	Ą
• 有触电的危险。请不要拆除连接器端子盖,除非是使用总线连接器。	A

Key to Warning Symbols

Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.

• Warning Symbols	
Minor electric shock, fire, or Product failure may occasionally occur. When connecting multiple power supply units, lock the sliders and the rail stopper.	0
When connecting multiple power supply units, wire the input line for only one power supply unit. Mis-wiring the input line could cause the shortage of the input at the inside of the unit, and also could cause the breakage of the main unit. [Fig.2]	0
Do not connect or separate the power supply unit during power-on. Electric shock may be caused.	A
Do not remove any connector cover unless using bus line connectors. Electric shock may be caused.	A





① 总线连接器 (DC线连接型)
(S8T-BUS01)
② 总线连接器 (DC线不连接型)
(S8T-BUS02)
● 海井

③ 滑块

④ 连接器盖 ⑤ AC输入(L)总线连接器端子

⑥ AC输入(N)总线连接器端子

② 选择器 ⑧ 接地 (♣) 总线连接器端子

9 并列运行信号总线连接器端子 ⑩ DC输出(+V)总线连接器端子 ⑪ DC输出(-V)总线连接器端子

CHN 安全规格 EN Safety standards

1.DC输出端子与AC输入端子是相互电气绝缘的。 2.过电压 category III。

CHN 各部位名称

3.产品防护等级1。

4.气候等级: 3K3 :按照EN50178(=VDE0160)。

过电压 category II。 :按照UL60950-1和EN60950-1。

CSA Level 3

针对UL508 Listing而言,周围温度(Surrounding Air Temperatrue) 是40°C。

DC output terminals are galvanically separated from the AC input terminals. Overvoltage category III. This equipment is for protection class 1. Climatic class: 3K3 According to EN50178 (=VDE0160). Overvoltage category II.

(S8T-BUS02)

: According to UL60950-1 and EN60950-1. CSA Level 3

Surrounding Air Temperature according to UL508 Listing : 40°C

EN Nomenclature ① Bus Line Connector (DC Line Connecting type) (S8T-BUS01)

② Bus Line Connector (DC Line Non-connecting type)

Bus Line Connector Terminal for Paralle Operation Signa
 DC Output(+V) Bus Line Connector Terminal

AC Input(L)Bus Line Connector Terminal
 AC Input(N) Bus Line Connector Terminal

1 DC Output(-V) Bus Line Connector Terminal

CHN 使用注意

1.N台多个连接时的额定输出电流是一个单位电流乘以N的额定输出(4台多个连接时为10A)。N+1冗长运转时可以连接5台。但是,即使连接5台也请在输出电流9A以下

3'K/T 2. N+1冗长运转时,请在负荷率90%以下时使用。 多重输出时 当连接不同输出电压规格的电源时,最大连接台数是4台。

■总线连接器 ■ 尽线连接器 • 拆下总线连接器时,请将一字螺丝刀插入总线连接器的两端来拆除。 Fig.3

• 拆下总线连接器时,请将一子赚在刀捆八心块处比较做到了严啊介绍了。

• 总线连接器的选择

并联运转时:SST-BUSO1
(CC线选接型

Fed

为了防止不同输出电压规格的电源发生错误连接(对SST-BUSO1而言),请准备选择
需。将选择署清到剩输出电压并联运行状态的位置。

非并联运转时:SST-BUSO2
(DC线不连接型

Fed

1:

任: 可能会发生因接触不良导致电气性能恶化。请在使用时遵守以下2点。 1.请将总线连接器的插拔次数控制在20次以内。 2.请不要接触总线连接器的端子。

安装 请将各连接模块之间的距离保持在10mm以上。

* 1 空气的对流方向 * 2 75 (mm) 以上 * 3 75 (mm) 以上 * 4 10 (mm) 以上

■ 配线 请将各连接模块之间的距离保持在10mm以上。

与接地端子(④)的配线
 当电源连接起来使用时,只需要1台电源实施接地配线,不要把全部的电源都接地。
 当在7.5A以上的输出电流下使用连接器端子型(S8TS-□□□□□)时,请使用所有的四个0C输出端子进行DC输出配线。

请不要在各模块之间或模块对其他机器之间交叉配线。

- 突入电流 单台电源的突入电流为17.5/35A(100/200VAC)以下。当连接N台电源时,突入电流 在中百町疾的/指。 特别是突入电流会引起外置保险丝熔断、断路器不工作,请充分确认保险丝熔断特性、 断路器工作特性。
- ■耐电压试验 青将N台连接时的关断电流设定为"20mA×N"。 其它详细内容请参考说明书
- 弄台电源的漏电流为0.35 / 0.70mA(100 / 240VAC)以下。当N台连接时,漏电流是单台

■并联运行输出电压调整 出货时会调整到额定输出电压,当调整输出电压时,在连接电源之前,请通过调节每台 电源的输出电压调节器(V. ADJ)来调节输出电压。请将各个输出电压的确差控制在下 列表格的值之内。

■Class2电源 当在并联运行状态时,因为不满足Class2的要求,所以要予以注意。 ■符合EU指令 为符合EMC指令的使用条件,请参考商品目录和本说明书。

■ Number of Multiple connecting Power Supply Units
· In the case of raising the output capacity

Notes:

1. The rated output current when N units are multiple-connected is the rated output current of one unit multiplied by N (10 A when 4 units are multiple-connected). Up to 5 units are possible to be multiple connected for N+1 redundant operation. Note that the output current unit of the connected of the c

2. During N+1 redundancy operation, use at a load rate of 90% or less In the case of applying multi-output Up to 4 units are possible to be multi-connected for the units when using the product connecting the power supply units with different output voltage is connected the different output voltage.

Fig.3 Removing Bus Line Connector Insert the flat screw driver to both ends of the bus line connector alternatements the bus line connector.

Selecting Bus Line Connector.

Selecting Bus Line Connector

For Parallel Operation: S8T-BUS01

(DC Line Connecting Type, Fig.4)

Prepare the selector for preventing the mis-connection of the power supply unit with a output voltage (for S8T- BUS01). Slide the selector to the position of the output voltabe performed the parallel operation.

For Other Operation (Except Parallel Operation): S8T-BUS02 (DC Line Non-connecting Type, Fig.5)

Notes:
Use the product keeping the following two notes. Insufficient contact could cause the deterioration of the electrical performance. 1. The frequency of the connector insertion and extraction of the bus line connector is under

■ Mounting

■ Wiring

Wiring to the ground terminal (⊕)

When power supply units are connected, install the earth cable to only one power supply unit. It is not required to wire to all the power supply units.

EN Precautions for Correct Use

If the output current of the Connector Terminal Type (S8TS- \square \square P) exceeds 7.5A, wire the output line using all four DC Output Terminals. Fig.8

Do not install crossover wiring between connecting blocks or to other devices. Fig.9

■ Inrush Current

times unites, the initial current is in amost the initial current supplied for one unit.

Especially, check the pre-acring time-current characteristics for the fuse and operating time-current characteristics for the breaker sufficiently for not generating the pre-acring time-current of the external fuse or tripping of the breaker caused by the inrush current.

■ Delectric Strength Test Set the cutoff current for the product multi-connecting with N times units at "20mA × N". Refer to the operation manual for the detail of the other pattern ■ Leakage Current
The allowable leakage current per one power supply unit is under 0.35/0.70mA (100/240VAC).
If multi-connected N times unites, the allowable leakage current is N times the leakage current allowed for one unit.

■ Output Voltage Adjustment for Parallel Operation The output voltage is adjusted to the rated one before shipment. To adjust the output voltage, connect power supply units after adjusting the output voltage using each output voltage adjusting timer (V.ADJ). Make the fluctuation of each output voltage below values in the following the control of the contr

S8TS-06024 Max. 0.24V
S8TS-03012 Max. 0.12V

■ Class2 Power Supply
Be sure that the Class2 requirements cannot be satisfied during the parallel operation

禁止多台输入配线/ Prohibited Multiplex Input Wiring Fig. 2



