

适用于开放型现场总线网络 DeviceNet™ CC-Link

**電力調整器** Designed for Open field network  
Power Regulator unit

CALPOTE

**UF** 高性能型  
High-performance type  
**series**

**SPU** 通用型  
General-purpose type  
**series**



## 适应网络的高功能单元 电力调整器

本公司的可控硅型电力调整器以其操作性及高度的信誉，在各个领域被广泛利用。本公司持续开发，制造了作为电力控制核心的半导体及可控硅元件。经多年提供电力调整器，深受大家的惠顾。以多年的实际成果为基础而开发的UF系列中，主电路部件采用了本公司的可控硅模块(绝缘型)从而实现了小型轻量化。提高了实装多数单元时的控制盘实际安装密度。控制电路部分，采用了数码控制方式。搭载了多彩的保护机能和选向机能，从而实现了性能的大幅度提高。不仅如此，还推出提高了控制性能的通用型SPU系列。

### Network conformance, high-performance unit

Our Thyristor Power Regulators are widely used in various fields with high maneuverability and reliability. Thanks to our outstanding technology of semiconductors including Thyristor developed and manufactured by ourselves, our Thyristor Power Regulators have been well accepted in all the markets of the world. The high-performance "UF series" developed by our long-standing expertise, has our own thyristor modules (insulating type) in the main circuit. It features compact and light-weight. Multiple units are mounted in a control pannel resulted in improvement of packaging density. The unit achieves outstanding performance by employing digital control system, various protective and optional functions. General-purpose SPU series models are also available with high control performance.

## Power Regulator unit

# CALPOTE series

## Open Network Interface

**UF series** 适用于开放型现场总线网络

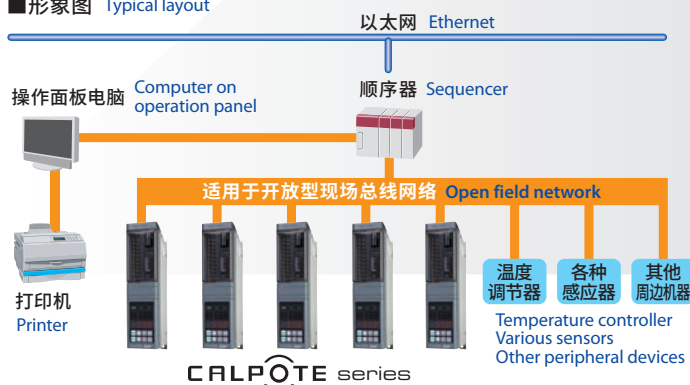
DeviceNet™ CC-Link

在业界中，本公司的产品，先驱搭载了DeviceNet等开放网络通信。通过这个功能可实现电脑，PLC等控制机器的相互连接，与机械的配备也很容易。将不需要通过RS232C等而开发复杂程序及专用线路板。(不能适应一部分机种)

### Designed for Open field network

As a pioneer of the industry, we designed a feature of open network communications, such as DeviceNet. Thanks to this outstanding function, the unit can be interconnected with computers, PLCs and other control devices, and get readily matched up with mechanical systems. Complicated jobs such as writing programs using specific communications by RS232C interface can be eliminated. Special PC boards are also not required by this outstanding function. (Some models are not applicable for this function.)

■形象图 Typical layout



1. 作为选项机能，在各单元上连接通信单元，可实现在同一电缆上连接最高63台单元。

Up to 63 units can be hooked up through the same cable by optionally adding the communication package to each unit.

2. 通过电脑可设定输出电压，电流，电力的监控程序及信号。

The output voltage, current and power can be readily monitored and the signal settings can be made on the computer.



CALPOTE  
**UF-1**  
series

单相用 / 25~1200A  
Single-phase type: 25-1200A  
适用于开放型现场总线网络  
Designed for Open field network

高性能型  
High-performance type



CALPOTE  
**UF-3**  
series

三相用 / 25~1200A  
Three-phase type: 25-1200A  
适用于开放型现场总线网络  
Designed for Open field network

高性能型  
High-performance type



**SPU**  
series

单相用 / 20~100A  
Single-phase type: 20-100A

通用型  
General-purpose type

### 型号 Model

# UF - 025

UF series

相数 Type of phases

- 1: 单相控制 1: Single-phase control
- 3: 三相控制 3: Three-phase control

公称电压 Nominal voltage

- 0: 三相 (200V系/400V系共用) 0: Three-phase type (Common for 100V, 200V and 400V power)
- 2: 单相 (100V系/200V系) 2: Single-phase type (100V and 200V power)
- 4: 单相 (400V系) 4: Single-phase type (400V power)

F: 有保险丝 无: 无保险丝  
F: With fuse None: Without fuse

只表示三相 Three-phase type only indicated  
K: 6臂 K: 6-arm  
(感应负载时推荐6臂)  
(6-arm type recommended for induction load)

无: 3臂 None: 3-arm  
(不需表示单相)  
(No marking for single-phase type)

单元额定电流  
Unit's rated current

### 标准规格 Standard specifications

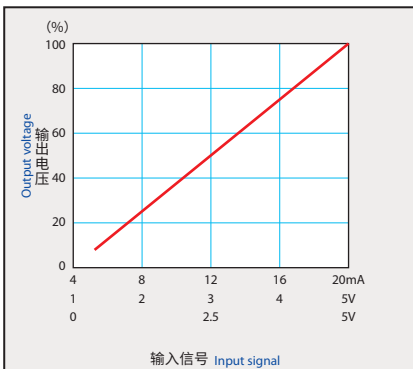
输入规格 Input spec.	相数 Type of phases	单相, 三相 Single-phase, three-phase	控制方式 Control system	相位控制, 周期控制 (连续式, 间欠式) Phase control Cycle control (continuous, intermittent)
	电压 Voltage	100V系 (100/110/120V±10%) 100V power 200V系 (200/220/254V±10%) 200V power 400V系 (380/400/440/460/480V±10%) 400V power ※控制电源 AC200/220V Control power	控制输入 Control input	(1) ON/OFF信号 比设定温度低的时候, 变成ON的接点 ON/OFF signal: Contact made when temperature drops below setting (2) 电流信号 DC4~20mA (单元输入电阻250Ω) Current signal: DC 4-20mA (Unit input resistance: 250Ω) (3) 电压信号 DC1~5V, DC0~5V (单元输入电阻13KΩ) Voltage signal: DC 1-5V, DC0-5V (Unit input resistance: 13KΩ) (4) 其他电流信号及电压 (需要信号变换器) Other current and voltage signals (signal converter required)
	频率 Frequency	50/60Hz±5%	起动/停止 方式 Start/Stop method	软起动/下降方式 (标准0.5秒, 通过表示面板可任意设定) Soft start/down system (Standard 0.5 sec., Random setting on display panel)
输出规格 Output spec.	电流 Current	25/35/50/75A (自然冷却) (self cooled) 100/150/250/350/450A (风冷) (air-cooled) 600/800/1200A (非标准/风冷) (not standard/air-cooled)	限制电流 Current limit	可设定额定电流的50~110% (只限位相控制) Presetable 50-110% of rated current (phase control only)
	周围温度 Ambient temperature	动作: -10~50°C 保存: -20~70°C Operation Storage	输出特性 Output characteristics	直线特性±3% F.S (通过输出10~90%) Linear characteristics ±3% F.S (at 10-90% output) 下点设定: 设定最低输出电压 Minimum setting: Minimum output voltage setting 斜率设定: 设定最大输出电力 Gradient setting: Maximum output voltage setting
相对湿度 Relative humidity	30~90%RH	保护 Protection		
工作环境 Atmosphere	无腐蚀性气体, 粉尘, 及振动 No corrosive gas, dust and vibrations		附属品 (每本体1台) Accessories (per unit)	可变电阻器×1个, 旋钮×1个 Variable resistor knob
绝缘耐力 Dielectric strength	绝缘强度 Withstand voltage	AC2000V/min (100, 200V系) (100/200V power) AC2500V/min (400V系) (400V power)		
	绝缘电阻 Insulation resistance	20MΩ以上 (DC500V megger) Over 20MΩ (with DC500V megger)		

### 控制, 保护功能 Control and protection functions

#### ■ 标准输出特性

本单元的标准输出特性如下图所示。  
(相位控制, 周期控制)

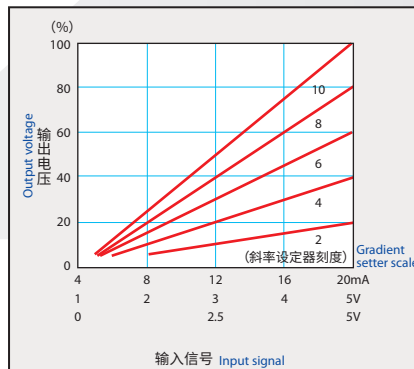
**Standard input/output characteristics**  
Standard input/output characteristics are shown below.  
(Phase control, Cycle control)



#### ■ 斜率输出特性

通过安装斜率设定器 (可变电阻器),  
可任意设定可变最大输出电压。

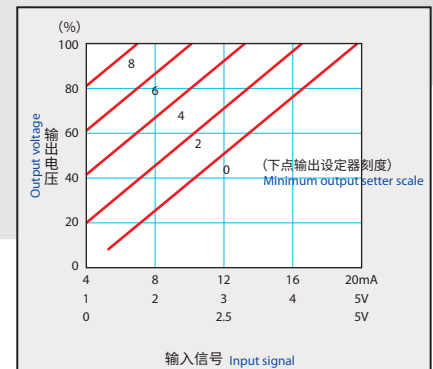
**Gradient output characteristics**  
Maximum output voltage can be set by adding a gradient setter.  
(variable resistor)



#### ■ 下点输出特性

通过安装下点输出设定器 (可变电阻器),  
可任意设定可变最小输出电压。

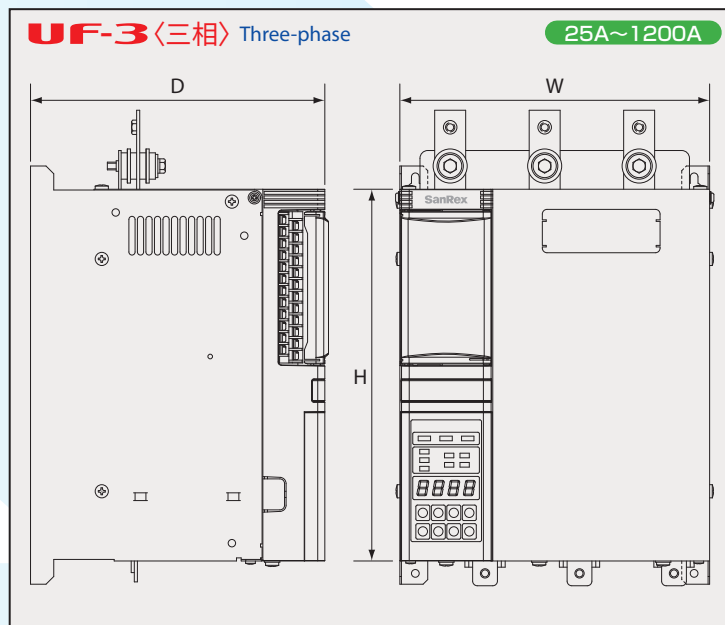
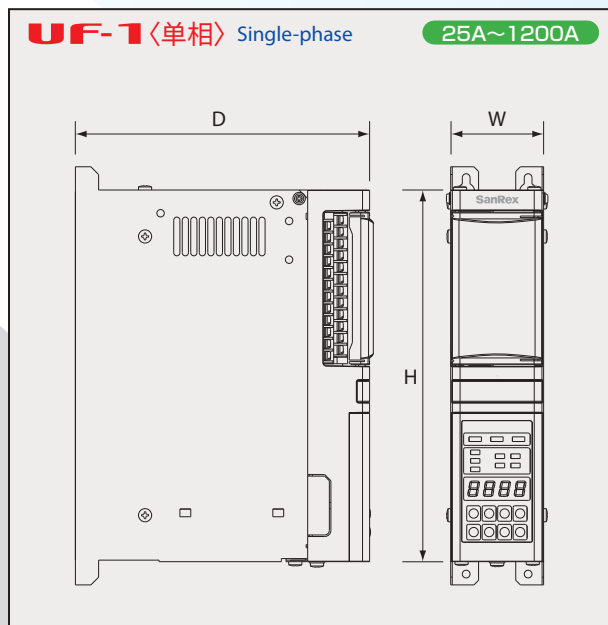
**Minimum output characteristics**  
Minimum output voltage can be set by adding a minimum output setter.  
(variable resistor)





## UF-1/UF-3

尺寸, 重量, 发热量 Dimensions, weight and calorific power

**UF-1** <单相> Single-phase

额定及尺寸, 内部发热量 Ratings, dimensions and internal calorific power

型号 Model	额定电流 (A) Rated current	冷却方式 Cooling system	外形尺寸 (mm) Outer dimensions			重量 (kg) Mass	发热量 (W) Calorific power
			W	H	D		
UF1- ※1 025 ※2	25	自然冷却 Self cooled	60	240	190	3	43
UF1- ※1 035 ※2	35		60	240	190	3	57
UF1- ※1 050 ※2	50		60	240	190	3	77
UF1- ※1 075 ※2	75		60	240	230	3.5	113
UF1- ※1 100 ※2	100	风冷 Air-cooled	60	240	230	4	164
UF1- ※1 150 ※2	150		118	240	230	5	224
UF1- ※1 250 ※2	250		118	350	260	8	349
UF1- ※1 350 ※2	350		118	425	260	12	395
UF1- ※1 450 ※2	450		118	425	260	12	512
UF1- ※1 600 ※2 (订单生产) made-to-order	600		260	366	309	23	695
UF1- ※1 800 ※2 (订单生产) made-to-order	800		400	366	359	31	982
UF1- ※1 1200 ※2 (订单生产) made-to-order	1200		420	553	365	56	1578

※1 ⇒ 2: 100V用, 200V用, 4: 400V用  
2: For 100V, 200V, 4: For 400V

※2 ⇒ F: 有保险丝 无: 无保险丝 (因400V是标准装备所以用F表示)  
F: Fuse fitted, None: No fuse (400V power type standard equipped with fuse. All marked with "F")

**UF-3** <三相> Three-phase

额定及尺寸, 内部发热量 Ratings, dimensions and internal calorific power

型号 Model	额定电流 (A) Rated current	冷却方式 Cooling system	外形尺寸 (mm) Outer dimensions			重量 (kg) Mass	发热量 (W) Calorific power
			W	H	D		
UF3 - 0025 ※1 F	25	自然冷却 Self cooled	200	240	190	6	87
UF3 - 0035 ※1 F	35		200	240	190	6	114
UF3 - 0050 ※1 F	50		200	240	190	6	174
UF3 - 0075 ※1 F	75	风冷 Air-cooled	200	240	230	7	252
UF3 - 0100 ※1 F	100		230	240	230	10	312
UF3 - 0150 ※1 F	150		230	350	260	13	522
UF3 - 0250 ※1 F	250		360	350	260	19	936
UF3 - 0350 ※1 F	350		360	425	260	28	1140
UF3 - 0450 ※1 F	450		360	425	260	28	1560
UF3 - 0600KF (订单生产) made-to-order	600		500	660	410	70	2000
UF3 - 0800KF (订单生产) made-to-order	800		560	705	425	99	2700
UF3 - 01200KF (订单生产) made-to-order	1200		650	830	450	125	3924

※1 ⇒ K: 25~450A是6臂时表示 (600~1200A是6臂时表示)  
K: 25~450A indicated for 6-arm type (600~1200A for 6-arm type only)

(注: 三相通用于100V系, 200V系, 400V系)  
(Note: Three-phase type: Common for 100V, 200V and 400V)

### 选项 Option

#### ■ 表示面板 (UF-DP) Display panel



1. 电路电压, 电流, 电力的各值用4位数字表示。  
(由于变换面板的种类表示功能将有所变更)  
Circuit voltage, current and power are displayed in 4 digits each.  
(Display function depending on the type of conversion board)
2. 通过面板的开关可以控制运行或停止。  
(但是以外部控制用端子传来的信号为优先执行)  
The unit can be started and stopped with the switch on the panel.  
(Note: Signal from the external control terminal is given priority.)
3. 斜率设定或下点设定的信号可以通过数值确认的同时也可通过面板的操作键进行设定。  
Gradient setting and minimum setting signals can be numerically checked and the settings can be made with the operation key on the panel.
4. 通过UF本体或延长电缆 (另购) 可安装在控制盘上。  
Display panel can be mounted on the UF main unit, or the external control panel with an extension cable (option).
5. 可任意设定软启动的时间。  
Soft-start time can be set within the specified range.
6. 可任意设定加热器的断线测定量。  
The heater breakdown detection level can be set within the specified range.

#### ■ 变换面板 (UF-TB) Conversion board

1. 可适应, 定电压控制, 定电流控制, 定电力控制。  
The board is designed for constant-voltage control, constant-current control and constant-power control.
2. 内设加热器断线测定电路的, 在加热器的并列运行时可将其一根断线检测出来。  
Open wire (single line) can be detected during the parallel heater run for the unit with the heater breakdown detection circuit.
3. 根据变换面板的种类, 可进行功能的组合。  
The functions can be combined depending on the models of conversion boards.

#### 变换面板型号 Model of conversion board

##### ■ 单相 Single-phase

变换面板型号 Model of conversion board	定电压控制 (CV) Constant-voltage control	定电流控制 (CC) Constant-current control	定电力控制 (CW) Constant-power control	加热器断线测定 Heater breakdown detection
UF-TB1V	○			
UF-TB1A		○		
UF-TB3	○	○	○	
UF-TB3U	○	○	○	○
UF-TB3H	○	○	○ (1%)	
UF-TB3HU	○	○	○ (1%)	○
UF-TB4			○	
UF-TB4H			○ (1%)	

##### ■ 三相 Three-phase

变换面板型号 Model of conversion board	测定相数 Type of phases detected	定电压控制 (CV) Constant-voltage control	定电流控制 (CC) Constant-current control	定电力控制 (CW) Constant-power control	加热器断线测定 Heater breakdown detection
UF-TB21A	2-phase		○		
UF-TB33	3-phase	○	○	○	
UF-TB33U	3-phase	○	○	○	○

#### 用途 Applications

##### ■ 定电流电路 Constant-current circuit

1. 纯金类 (钼, 白金) 或硅化钼系 (Super kanthal, molidit 等) 加热器控制。  
For control of pure metal (molybdenum, platinum) or molybdenum silicate (Super Kanthal, Molidit, etc.) heaters.
2. 盐槽炉, 玻璃溶解火炉等直接加热方式的电气炉控制。  
For control of direct-heating electric furnaces such as salt-bath furnace and glass melting furnace.
3. 根据直接通电初化线材或钢带等。  
For annealing of wires and steel strips by direct energizing.
4. 通过对螺栓或钢材的直接通电进行淬火, 铸造用钢材的加热。  
For quenching of bolts and steel materials by direct energizing and for heating of forging stocks.
5. 离子氮化用电源。  
For power supply of ion nitriding.

##### ■ 定电压电路 Constant-voltage circuit

对于控制中的电源电压变动, 感应变动, 控制防止输出电压的变动。  
Control against output voltage fluctuations due to fluctuations of the input voltage and the load during the operation.

##### ■ 定电力电路 Constant-power circuit

1. 碳化硅系加热器使用炉的自动控制。  
For automatic control of silicon carbide heater furnace.
2. 碳素素材碳加热器的控制。  
For control of carbon materials and carbon heaters.
3. 不能测定温度的控制系列温度控制。  
For temperature control of control lines whose temperature not detectable.

#### ■ 通信单元 Communication unit

通信单元型号 Model of communication unit	适应网络 Applicable network	最多连接台数 Maximum number of units for connections
UF-RS485	RS485	15 units
UF-DN	DeviceNet	63 units
UF-CL	CC-Link	42 units

# SPU series

通用型 General-purpose type

型号 Model

## SPU-2020

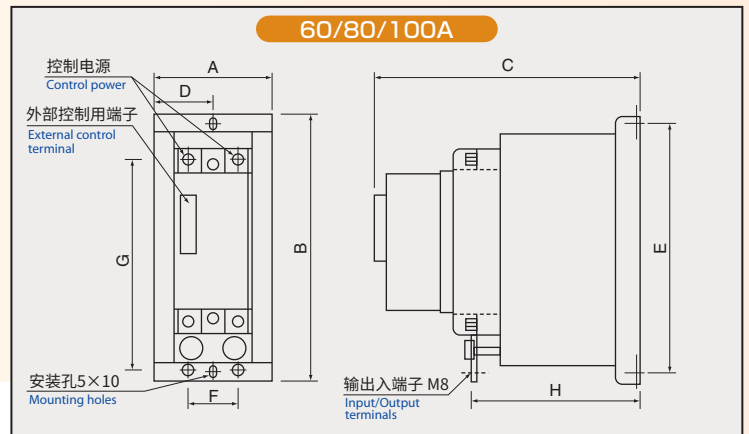
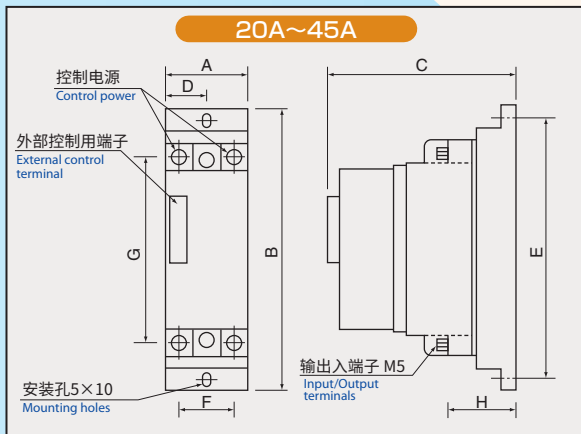
单相SPU系列  
Single-phase SPU series单元额定电流  
Unit's rated current  
2: 100V/200V共用  
Common for 100V and 200V power

## 标准规格 Standard specifications

输入规格 Input spec.	相数 No. of phases	单相 Single-phase	使用环境 Operating environment	周围环境 Ambient temperature	动作: Operation: -10~50°C 保存: Storage: -20~70°C
	电压 Voltage	100/200V ±10% (控制电流 AC200/220V) 100/200V, ±10% (control power: AC200/220V)		相对湿度 Relative humidity	30~90%
	频率 Frequency	50/60Hz		工作环境 Atmosphere	无腐蚀性气体, 粉尘, 及振动 No corrosive gas, dust and vibrations
输出规格 Output spec.	电流 Current	20/30/45/60/80/100A (自然冷却) (Self-cooled)	绝缘耐力 Dielectric strength	绝缘强度 Withstand voltage	AC2000V/1min (100, 200V系) AC2000V for 1 min (100/200V power)
				绝缘电阻 Insulation resistance	20MΩ以上 (DC500V megger) Over 20MΩ (with DC500V megger)

※可变电阻另售: 手动调整, 上限输出调整, 下限输出调整, 斜率设定 Volumes sold separately: Manual adjustment, upper-limit output adjustment, lower-limit output adjustment, gradient setting

## 尺寸, 重量, 发热量 Dimensions, weight and calorific power



型号 Model	额定电流 (A) Rated current	冷却形式 Cooling system	外形尺寸 (mm) Outer dimensions								重量 (kg) Mass	内部发热量 (W) Calorific power
			A	B	C	D	E	F	G	H		
SPU-2020	20	自然冷却 Self cooled	52	180	110	26	164	31	104	52	0.7	20
SPU-2030	30		60	180	110	30	164	31	104	52	0.8	30
SPU-2045	45		60	180	171	30	164	31	104	113	1.6	46
SPU-2060	60		70	180	171	35	164	39	147	112	1.9	52
SPU-2080	80		98	190	156	49	174	39	147	98	1.9	75
SPU-2100	100		94	210	211	47	194	39	147	153	4.5	104

## 控制, 保护功能 Control and protective functions

## 1. 波形控制方式... 相位控制, 周期控制 (间欠式, 连续式)

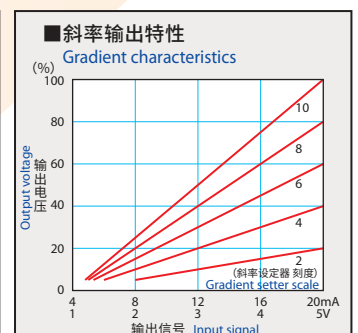
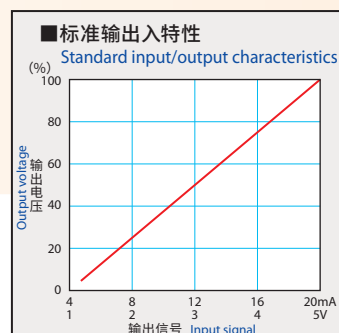
**Waveform control system:**  
Phase control, cycle control (intermittent, continuous)

## 2. 输入输出特性... 手动, 自动。本单元的标准输入输出特性, 如右图所示。(相位控制, 周期控制)

**Standard input/output characteristics:**  
Manual, automatic. The unit has its standard input/output characteristics as shown at right. (Phase control, Cycle control)

## 3. 斜率输出特性... 通过接入斜率设定器 (可变电阻) 可任意变更设定最大输出电压。

**Gradient output characteristics:**  
Maximum output voltage is freely presettable by adding a gradient setter (variable resistor).



## 贡献于社会的 UF·SPU系列

最适合高精度加热控制

UF·SPU series is widely used in many kinds of fields Suitable for high-precision heating control

### 飞机

- 碳纤维
- 机身成形



Aircraft  
● Carbon fiber  
● Fuselage forming

### 平板电视

- 玻璃线路板
- 滤光片
- 薄片
- 偏振光板



Flat-screen TV  
● Glass substrate  
● Filter  
● Film  
● Polarization plate

### 汽车

- 钢板
- 轮胎
- 铝
- 照明灯
- 线束



Automobile  
● Steel plate  
● Tire  
● Aluminum  
● Light  
● Harness

### 电子部件

- 电容器
- LED
- 电阻
- 半导体



Electronic parts  
● Capacitor  
● LED  
● Resistor  
● Semiconductor

### 其他

- 塑料瓶
- 生物量
- 食品加工机
- 燃料电池等.



Others  
● Plastic bottle  
● Biomass  
● Food processing system  
● Fuel cell, etc.

## 其他加热设备

Other heating machines



另外, 本公司还制作直流加热用电源及感应加热用电源。

DC heating and induction heating power supplies are also designed and manufactured by us.

## 注意 Caution

为了正确, 安全的使用电源, 请先认真阅读“使用说明书”。为了防止火灾, 触电等事故的发生, 请不要将其放置在水, 湿气, 水蒸气, 灰尘, 油烟等多的地方。  
Read and understand the entire Operating Manual and your employer's safety practices before installing, or using the equipment. Do not install the equipment in an area where water, high humid, steam, dust or oil are located. It may cause damage to the equipment or result in a fire or electrical shock.

若用于如下用途, 请咨询本公司。

- 用于人命直接相关的医疗器械、系统等
- 用于电车、电梯等可能导致人身伤害的运输系统
- 用于重要的社会性、公共性基础设施
- 相当于上述的装置和系统

用于与人身安全相关的、对维护公共功能有重大影响的装置和系统时, 需要将系统多路复用化、设置紧急发电设备等, 在运用、维护和管理方面需要采取特殊措施。

即使是因本公司产品导致事故, 包含对装置、连接设备、软件造成的异常和故障损害及其他二次损害在内的所有损害, 本公司概不负责赔偿。

If the product is intended to be used for any of the following applications, consult us in advance.

- Use for medical devices, systems, etc. directly influence human lives
- Use for transportation systems such as electric trains, elevators, etc. that can lead to damage to human bodies
- Use for trunk systems that play important roles socially and publicly
- Devices and systems that are similar to any of the above

For devices and systems that are involved in the safety of people and have serious influence on the maintaining of public functions, special considerations are required to be given to their operation, maintenance, and management, such as multiplexing of systems, installation of power generation equipment for emergency use, and the like.

Even in the case of an accident caused by our product, we are not in a position to make compensation for any and all damages including damages related to abnormality and failure of devices, connected equipment, and software as well as other secondary and consequential damages.

- SanRex和CALPOTE是株式会社三社电机制作所的商标或者注册商标。
- DeviceNet是ODVA, Inc.的商标。
- CC-Link是, CC-link协会(CC-Link Partner Association: CLPA)的商标或者注册商标。
- 其他在该产品册中登载的商品名称各自在其公司中有可能被作为商标使用。
- 有寿命的元件(风扇, 保险丝等)更换时需要费用, 敬请周知。请妥善保管附属品。
- 作为本产品册中之外的用途, 使用时请另作咨询。
- 为了提高性能, 有无预告而进行变更的可能。

- SanRex and CALPOTE are trademarks or registered trademarks of Sansha Electric Manufacturing Co., Ltd.
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- CC-Link is a trademark or a registered trademark of CC-Link Partner Association.
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- None of these organizations are affiliated with Sansha Electric, nor do they sponsor or endorse Sansha Electric products.
- Please note that the parts such as fan or fuse needed to be replaced are chargeable when replacing. Also, keep accessory parts in a safe place.
- Please contact us if the equipment is used for any other applications not specified in this catalog.
- Specifications are subject to change without any notice.



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