

SIYOUNG power 60
SIYOUNG power 100
SIYOUNG power 150
SIYOUNG power 300

6EP0123-2AA00-0AA0
6EP0123-2AA00-0AB0
6EP0123-3AA00-0AB0
6EP0123-4AA00-0AB0

Operating instructions

Nr.: C98130-A7578-A1-51-6C19



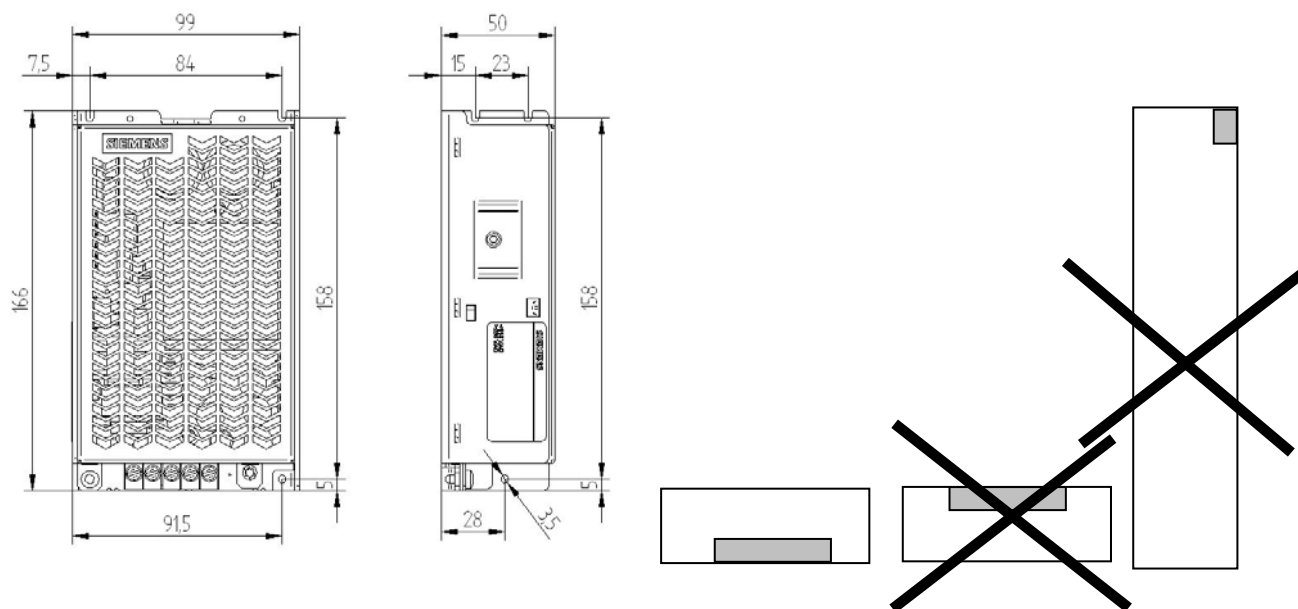
Warning / Danger of electric shock:

Hazardous voltages are present in this electrical equipment during operation. Failure to properly maintain the equipment can result in death, severe personal injury or substantial property damage. Only qualified personnel is allowed to work on or around this equipment. The successful and safe operation of this equipment is dependent on proper handling, installation and operation.

Potentiometer is only allowed to be actuated using an insulated screwdriver to DIN 7437, because accidental contact may be made with parts inside the equipment carrying dangerous electrical voltage.

Electrostatically sensitive device (ESD). The device may only be opened by qualified personnel.

Dimensional drawing/ Installation note



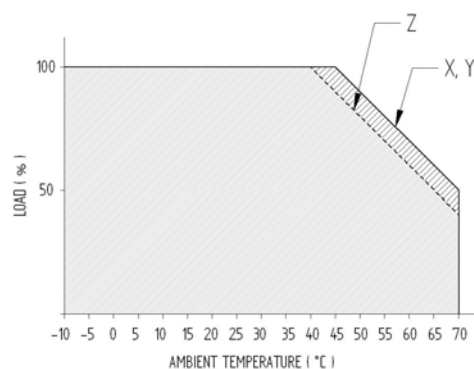
Mounting method X

Y

Z

In position Z derating starts at 40°C .

A clearance of 30mm must be on both sides of the device.



Installation and assembling:

The supply voltage (230 VAC) must be connected in accordance with IEC 60364 and EN 50178. A protective device (fuse) and an insulating device for disconnecting the power supply must be provided.

⚠ Danger:

The mains switch has to be switched off and prevented from being switched on again before installation or maintenance. If these rules are not adhered to, contact with live parts or improper use can result in death or severe personal injury.

Description and construction:

Primary switched-mode power supply for screw mounting.

For connection with firm wiring to 230 V, 50/60 Hz single-phase AC system.

Output voltage +24 V DC, potential-free, protected against short-circuit and open-circuit conditions.

Parallel connection of two similar devices to increase the power is permitted (provided the difference of the output voltages is < 0,2 % and the line impedances are equal to the load).

Technical specifications:

Specifications valid for input voltage 230 V AC and ambient temperature +25 °C, unless otherwise stated. They are subject to change without prior notice.

SIYOUNG power	24 V/2.5 A	24 V/4 A	24 V/6 A	24 V/12 A
Order no.:	6EP0123-2AA00-0AA0	6EP0123-2AA00-0AB0	6EP0123-3AA00-0AB0	6EP0123-4AA00-0AB0
Input:				
Rated voltage V_{in} :	230 V AC			
Voltage range:	187...264 VAC			
Line frequency range:	47...63 Hz			
Mains buffering:	> 10 ms at full load			
Rated current I_{in} :	0.65 A	1.1 A	1.4 A	2.5 A
Protection in the mains supply line:	6 A Char. C	6 A Char. C	10 A Char. C	
Output:				
Rated voltage V_{out} :	24 VDC			
Tolerance	+/- 3%			
Setting range:	23...26 VDC			
Noise and ripple	< 250 mV _{pp}			
Output power rated value (45°C, at 24V)	60W	96W	144W	288W
Output current rated value (45°C, at 24V)	2.5 A	4 A	6 A	12 A
Output current rated value (70°C, at 24V)	1.25 A	2 A	3 A	6 A
Parallel switch for higher performance	Yes			
Electronic short-circuit protection	Yes, 105...140% rated output current, auto-recovery			
Status indicator	Green LED for output voltage OK			
General specifications				
Efficiency at rated value approx.	typ. 84 %	typ. 87 %	typ. 87 %	typ. 90 %
Safety				
Degree of protection:	IP 20, according to EN 60529			
Protection	Class I			
Galvanic insulation	SELV output voltage acc. to EN 60950 , withstands I/P-O/P: 3kV AC			
EMC				
Emitted interference	EN 55022, Class B			
Noise immunity	EN 61000-6-2			
Storage and transport temperature	-25 °C...+85 °C			
Ambient temperature (cooling by free air convection)	-10 °C...+70 °C (derating above 45°C), without condensing			
Installation	Screw mounting, at 3 sides of the housing possible			
Dimensions (W x H x D) in mm	166 x 99 x 50			
Connections	Screw type terminals 0.5 ... 2.5 mm ²			
Weight approx.	0.8 kg			
Approvals	CE			

Note

These instructions cannot claim to cover all details of possible equipment variations, nor in particular can they provide for every possible example of installation, operation or maintenance. Further information is obtainable from your local Siemens office or in internet at <http://www.siemens.de/sitop>. Subject to change without prior notice. The English text applies in cases of doubt.

SIYOUNG 电源 60
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SIYOUNG 电源 300

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操作手册

序列号: C98130-A7578-A1-51-6C19



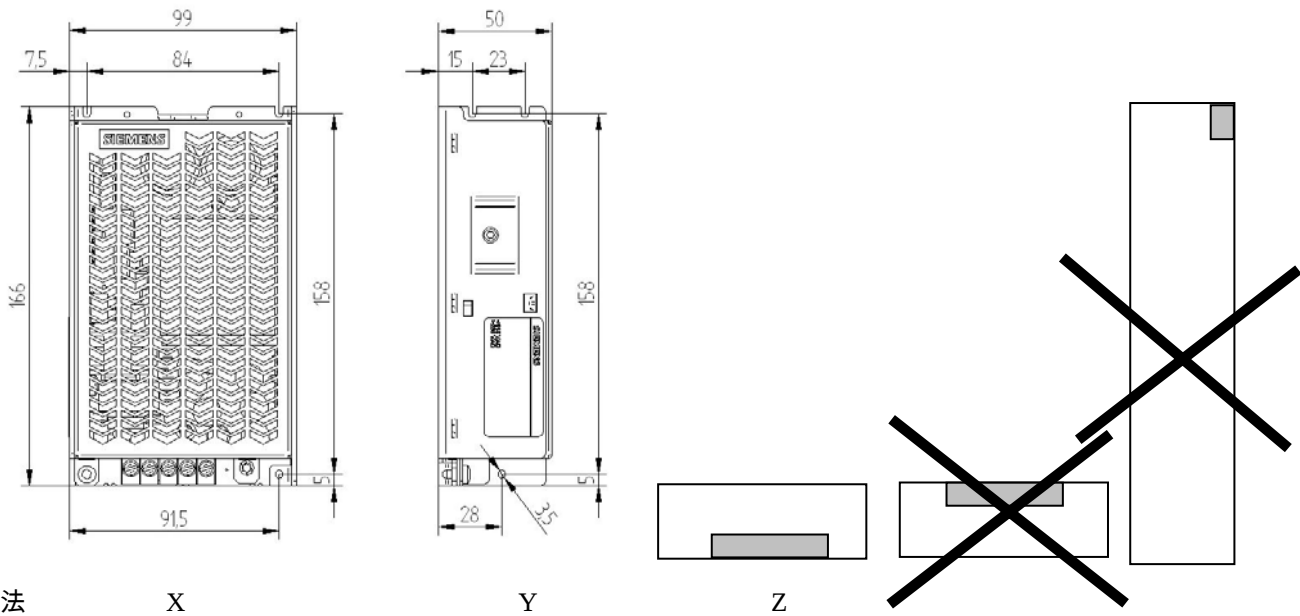
警告 / 电击危险:

在运行过程中该电气设备内有危险电压。错误操作会导致死亡、严重人身伤害或财产损失。只有专业人员方可靠近该设备或对设备进行操作。设备必须正确操作、安装和运行方可保证其正常安全运行。

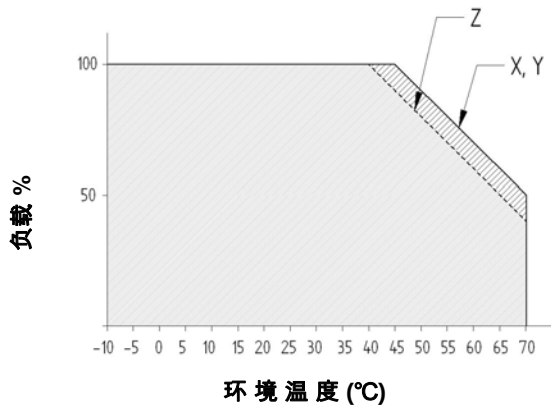
该设备内部部件带有危险电压，因此只能使用符合 DIN 7437 的绝缘螺丝刀去启动电位器。

静电敏感设备 (ESD) :只有专业技术人员方可打开该设备！

外形尺寸图/ 安装注意事项



方式 Z 安装降载到 40℃ 使用。
设备两侧应留出 30mm 的空间。



注：
本操作说明并未涵盖各种设备的所有细节，也不能提供安装、操作或维护的所有范例。需要获取更多信息，请与当地西门子办事处联系或访问我们的主页 <http://www.siemens.de/sitop>。若有变动恕不另行通知。如有疑问，请以英语文本为准。

安装和装配：

设备供电 (230V) 必须符合 IEC 60364 和 EN 50178。必须配备保护装置 (熔断器) 和用于电源单元安全隔离的断路开关

△ 危险：

在对设备进行安装和任何维修之前，请务必切断主电源开关并确保其不可再得电。

如不遵守上述要求，接触电源带电部分或不适当的使用会导致死亡或严重人身伤害。

摘要说明：

2 组相同的设备可以并联，从而增大功率 (在输出电压的偏差 < 0.2%，且线阻抗与负载相等时)。

开关电源模块为螺钉安装，请使用 230V, 50/60Hz 的单相交流电。输出 +24V 直流电，电压可调，具有短路保护功能。

技术规范：

若无其他规定，以下数据仅适用于环境温度 +25°C，输入电压为 230VAC 时。数据如有变动，恕不另行通知。

SIYOUNG power	24 V/2.5 A	24 V/4 A	24 V/6 A	24 V/12 A
订货号	6EP0123-2AA00-0AA0	6EP0123-2AA00-0AB0	6EP0123-3AA00-0AB0	6EP0123-4AA00-0AB0
输入				
额定输入电压	230 V AC			
电压范围	187...264 VAC			
频率范围	47...63 Hz			
电源缓冲	> 10 ms at full load			
额定输入电流	0.65 A	1.1 A	1.4 A	2.5 A
建议供电保护断路器	6 A Char. C	6 A Char. C	10 A Char. C	
输出				
额定输出电压	24 VDC			
误差	+/- 3%			
设置范围	23...26 VDC			
噪声和纹波	< 250 mV _{pp}			
额定输出功率(45°C, 24V 时)	60W	96W	144W	288W
额定输出功率(45°C, 24V 时)	2.5 A	4 A	6 A	12 A
额定输出功率(60°C, 24V 时)	1.75 A	2.8 A	4.2 A	8.4 A
并机功能	有			
电子式短路保护	有, 105...140% 额定输出电流，自动恢复			
状态指示器	用于指示输出正常的绿色 LED			
一般技术参数				
额定值下的效率	典型值 : 84 %	典型值 : 87 %	典型值 : 87 %	典型值 : 90 %
安全性				
防护等级	IP 20，符合 EN 60529			
保护等级	I 级			
电气隔离	符合 EN 60950 (SELV 防护)，输入-输出耐电压：3 KV AC			
EMC				
传导与辐射干扰	EN 55022, Class B			
抗扰度	EN 61000-6-2			
储存和运输温度	-25 °C...+85 °C			
工作温度 (自然冷却)	-10 °C...+70 °C (高于 45 °C 时降载使用)，无冷凝			
安装方式	螺丝固定，可在外壳的 三 侧进行			
尺寸 (宽 x 高 x 深)，mm	166 x 99 x 50			
连接	螺钉型端子 0.5...2.5 mm ²			
大约重量	0.8 kg			
认证	CE			