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内嵌式直流电源  
产品目录

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**Built-in DC Power Supplies**  
Product Catalogue

**2014**



Elektro-Automatik

## 各特征与选项的符号释义

## Meaning of the symbols for features and options

	范围可调的电压控制符号	Voltage control with adjustable voltage
	范围可调的电流控制符号	Current control with adjustable current
	范围可调的功率控制符号	Power control with adjustable power
	范围可调的内阻控制符号（可选）	Internal resistance control with adjustable resistance (optional)
	过压保护，可调或自动	Overshoot protection, adjustable or automatic
	过温保护	Overtemperature protection
	内置模拟接口	Integrated analog interface
	并联操作用共享总线	Share Bus for parallel connection
	19“机柜外壳	19" rack compliant enclosure
	函数发生器	Function generator
	有汇总功能的主从操作	Master-slave feature with totals formation

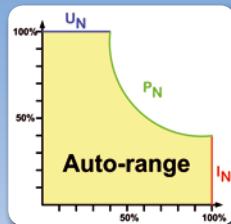
	内置USB端口，或可选内置USB接口卡	Built-in USB port or optional plug-in USB interface card
	内置RS232数字接口卡，可选	Optional, digital plug-in interface card RS232
	可选或机器预装内置Ethernet数字接口卡	Optional or installed, digital plug-in interface card Ethernet
	内置IEEE/GPIB数字接口卡，可选	Optional, digital plug-in interface card IEEE/GPIB
	内置CAN数字接口卡，可选	Optional, digital plug-in interface card CAN
	内置Profibus数字接口，可选	Optional, digital plug-in interface card Profibus
	内置水冷器，可选	Optional, built-in watercooler
	配各种工业接口的可拆卸式接口模块，可选	Optional, retrofittable and exchangeable interface modules with various industrial interfaces



# EA-PSI 800 R 320W - 5000W

可编程内嵌式直流电源 / PROGRAMMABLE BUILT-IN DC POWER SUPPLIES

- U**
- I**
- OVP**
- OTP**
- RS232**
- LAN**
- CAN**
- WC**



EA-PSI 865-10 R

- 宽范围输入电压90...264V (1.5kW以下型号)
- 两相输入电压340...460V (5kW型号)
- 效率高达 95.5%
- 输出功率: 320W 至 0...5000W
- 输出电压: 0...16V 至 0...500V
- 输出电流: 0...4A 至 0...170A
- 灵活的功率调整输出级\*\*
- 有过压保护(OVP)
- 有过温保护(OT)
- 图形显示器显示所有值和功能
- 自动检测远程感测
- 0...10V或0...5V模拟接口
- 报警管理器
- 自然风冷\*
- 温控风扇制冷\*\*
- 其它选项

- Wide range input 90...264V (up to 1.5kW models)
- Two-phase input 340...460V (5kW models)
- High efficiency up to 95.5%
- Output power ratings: 320W up to 0...5000W
- Output voltages: 0...16V up to 0...500V
- Output currents: 0...4A up to 0...170A
- Auto-ranging output stage \*\*
- Overvoltage protection (OVP)
- Overtemperature protection (OT)
- Graphic display for all values and functions
- Remote sense with automatic detection
- Analog interface for 0...10V or 0...5V
- Alarm management
- Natural convection for cooling \*
- Temperature controlled fans for cooling \*\*
- Various options

## 概要

EA-PSI 800 R系列是一款由微处理器控制的、底盘安装式实验室电源。它配备多种功能和特征，让用户使用起来更方便、有效。

## 输入

1.5kW以下型号采用主动式功率因数，适合90V至264V AC的输入电压，而5kW型号则需在340V...460V AC两相输入电压下操作。

## 功率

1kW以上型号输出功率可灵活变化，在低电流时输出更高的电压，或在低电压时输出更大的电流，都由最大额定输出功率来限制。

## 输出

本系列有多款不同型号，可选择0...16V和0...500V输出电压，0...4A和0...170A输出电流，320W和0...5kW输出功率的型号。输出电压、电流、功率、OVP等都能通过菜单设定，并显示于显示器上。

## General

The microprocessor controlled chassis mounting power-supplies from series EA-PSI 800 R have a multitude of functions and features making the use of this equipment easier and more effective.

## Input

The equipment uses an active PFC. Models up to 1.5kW are suitable for worldwide operation on mains supply of 90...264V, the 5kW models require a supply with 340...460V AC.

## Power

Models with 1kW or higher are equipped with a flexible auto-ranging output stage which provides a higher output voltage at lower output current, or a higher output current at lower output voltage, always limited to the max. nominal output power.

## Output

Different units with output voltages from 0...16V to 0...500V, output currents from 0...4A to 0...170A and an output power ratings of 320W up to 0...5kW are available. Output voltage, current, power, OVP etc. can be set via a menu and are shown on the integrated LCD.

\* 650W以下型号  
\*\* 1000W以上型号

\* Models up to 650W  
\*\* Models from 1kW



### 保护功能

为保护连接负载，可设定一过压保护极限值(OVP)。若输出电压超过调节极限值，输出被关断，显示器和模拟接口都发出一状态信号。

由于可调限流功能的存在，本产品也有短路和过载保护功能。

### 远程感测端

远程感测输入端可直接连到负载设备，以补偿连线上的压降。如果输入端已接上负载，本电源会自动调整输出电压，以确保负载获得准确所需的电压值。

### 模拟接口

模拟接口输入引脚接上0V...10V或0V...5V电压，可设置0...100%的输出电压、电流。

模拟接口输出脚接上0V...10V或0V...5V电压，还可监控输出电压、电流和功率。此外，还有几个输入脚和输出脚，用来控制和监控产品状态。

### 并联

5kW型号有一个共享总线端子，可轻易地将10台产品并联起来，从而获得均匀的电流分布。其它型号通过模拟接口相互连接，可形成一个并联的主-从系统。

### 选购件

- 通过RS232、CAN或USB绝缘数字接口卡，用电脑可控制本产品。接口卡插槽位于产品后板，方便用户插上新接口或替换当前接口。本产品会自动检测接口卡，并只需少许的配置或不用配置。随接口卡附有免费Windows软件，配合RS232与USB接口卡，可用来控制和监控，记录数据和排序。可参考120和125页。
- 水冷式制冷系统（仅针对5kW型号）

### Protective features

Intended to protect connected loads, it is possible to define an overvoltage protection threshold (OVP). If the output voltage exceeds the defined limit, the output is shut off. Also a status signal on the display and via the analog interface will be generated. Due to the adjustable current limitation, the devices are also short-circuit- and overload-proof.

### Remote sense

The sense input can be connected directly to the load to compensate voltage drops along the power cables. If the sense input is connected to the load, the power supply will adjust the output voltage to ensure that the accurate required voltage is available on the load.

### Analog interface

Analog inputs with voltage ranges from 0V...10V or 0V...5V to set output voltage and current from 0...100% are available. To monitor the output voltage and current, analog outputs are provided with voltage ranges of 0V...10V or 0V...5V. Several digital inputs and outputs can be used to control and monitor the status.

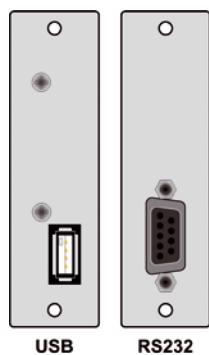
### Parallel connection

The 5kW models feature a „Share bus“ connector, which makes it easy to connect up to 10 units in parallel operation and in order to gain symmetric current distribution. Other models can be wired by their analog interfaces in order to have a parallel master-slave system.

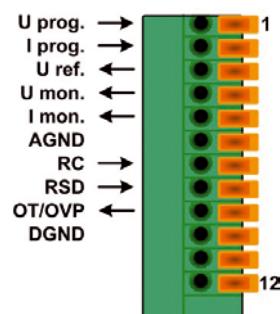
### Options

- Isolated digital interface cards for RS232, CAN or USB to control the device by PC. The interface slot is located on the rear panel, making it easy for the user to plug in a new interface or to replace an existing one. The interface will be automatically detected by the device and requires no or only little configuration. Included with the interface cards is a free Windows software for the RS232 and USB interfaces which provides control and monitoring, data logging and semi-automatic sequences. See pages 120 and 125.
- Water cooling (5kW models only)

数字接口 / Digital interfaces



模拟接口 / Analog interface

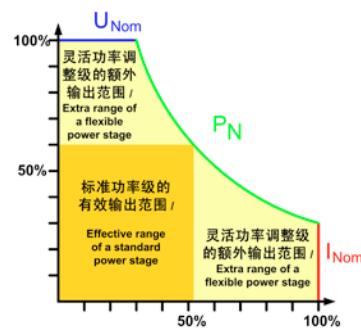




# EA-PSI 800 R 320W - 5000W

可编程内嵌式直流电源 / PROGRAMMABLE BUILT-IN DC POWER SUPPLIES

EA-PSI 800 R 1.5kW



EA-PSI 800 R 5kW



图形显示器 / Graphics display

技术参数	Technical Data	EA-PSI 816-20 R	EA-PSI 832-10 R	EA-PSI 865-05 R	EA-PSI 832-20 R	EA-PSI 865-10 R
AC输入电压	Input voltage AC	90...264V, 1ph+N	90...264V, 1ph+N	90...264V, 1ph+N	90...264V, 1ph+N	90...264V, 1ph+N
-频率	- Frequency	45...65Hz	45...65Hz	45...65Hz	45...65Hz	45...65Hz
-功率因数	- Power factor	>0.99	>0.99	>0.99	>0.99	>0.99
DC输出电压	Output voltage DC	0...16V	0...32V	0...65V	0...32V	0...65V
-负载0-100% 时的稳定性	- Stability at 0-100% load	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-在±10% Δ U <sub>IN</sub> 时的稳定性	- Stability at ±10% Δ U <sub>IN</sub>	<0.02%	<0.02%	<0.02%	<0.02%	<0.02%
-纹波 <sup>(1)</sup>	- Ripple <sup>(1)</sup>	<40mV <sub>PP</sub> <4mV <sub>RMS</sub>	<100mV <sub>PP</sub> <10mV <sub>RMS</sub>	<150mV <sub>PP</sub> <20mV <sub>RMS</sub>	<100mV <sub>PP</sub> <8mV <sub>RMS</sub>	<150mV <sub>PP</sub> <10mV <sub>RMS</sub>
-负载从10%-100% 调整需时	- Regulation 10-100% load	<2ms	<2ms	<2ms	<2ms	<2ms
-感测端调整电压	- Sense regulation	最大2V	最大2V	最大2V	最大2V	最大2V
-10-90% 的转换速率	- Slew rate 10-90%	最长30ms	最长30ms	最长30ms	最长30ms	最长30ms
输出电流	Output current	0...20A	0...10A	0...5A	0...20A	0...10A
-0-100%ΔU <sub>OUT</sub> 时的稳定性	- Stability at 0-100% Δ U <sub>OUT</sub>	<0.15%	<0.15%	<0.15%	<0.15%	<0.15%
-±10% Δ U <sub>IN</sub> 时的稳定性	- Stability at ±10% Δ U <sub>IN</sub>	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-纹波 <sup>(1)</sup>	- Ripple <sup>(1)</sup>	<60mA <sub>PP</sub> <10mA <sub>RMS</sub>	<35mA <sub>PP</sub> <7mA <sub>RMS</sub>	<12mA <sub>PP</sub> <3mA <sub>RMS</sub>	<65mA <sub>PP</sub> <10mA <sub>RMS</sub>	<25mA <sub>PP</sub> <3mA <sub>RMS</sub>
输出功率	Output power	320W	320W	325W	640W	650W
效率	Efficiency	90.5%	89%	92%	90.5%	91%
过压类别	Overvoltage category			2		
污染等级	Pollution degree			2		
保护等级	Protection class			1		
模拟编程	Analog programming	0...10V 或 0...5V, 可选 / 0...10V or 0...5V, selectable				
制冷方式	Cooling	自然冷却, 通风槽在产品顶部与底部/ Convectional, ventilation slots at top & bottom				
工作温度	Operation temperature	0...50°C				
尺寸 (WxHxD)	Dimensions (WxHxD)	218x163x83mm	218x163x83mm	218x163x83mm	218x163x83mm	218x163x83mm
安装尺寸 (WxHxD)	Installation dim. (WxHxD)	218x190x85mm	218x190x85mm	218x190x85mm	218x190x85mm	218x190x85mm
重量	Weight	2.2kg	2.2kg	2.2kg	2.2kg	2.2kg
产品编号	Article number	21540401	21540402	21540403	21540404	21540405

(1) RMS值: NF 0...300kHz, PP值: HF 0...20MHz / RMS value: LF 0...300kHz, PP value: HF 0...20MHz

# EA-PSI 800 R 320W - 5000W

可编程内嵌式直流电源 / PROGRAMMABLE BUILT-IN DC POWER SUPPLIES



技术参数	Technical Data	EA-PSI 8160-04 R	EA-PSI 880-40 R	EA-PSI 8360-10 R	EA-PSI 880-60 R	EA-PSI 8360-15 R
AC输入电压	Input voltage AC	90...264V, 1ph+N	90...264V, 1ph+N	90...264V, 1ph+N	90...264V, 1ph+N	90...264V, 1ph+N
-频率	- Frequency	45...65Hz	45...65Hz	45...65Hz	45...65Hz	45...65Hz
-功率因数	- Power factor	>0.99	>0.99	>0.99	>0.99	>0.99
输出电压 (DC)	Output voltage DC	0...160V	0...80V	0...360V	0...80V	0...360V
-负载0-100% 时的稳定性	- Stability at 0-100% load	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-在±10% ΔU <sub>IN</sub> 时的稳定性	- Stability at ±10% ΔU <sub>IN</sub>	<0.02%	<0.02%	<0.02%	<0.02%	<0.02%
-纹波 <sup>(1)</sup>	- Ripple <sup>(1)</sup>	<120mV <sub>PP</sub> <20mV <sub>RMS</sub>	<10mV <sub>PP</sub> <5mV <sub>RMS</sub>	<30mV <sub>PP</sub> <12mV <sub>RMS</sub>	<10mV <sub>PP</sub> <5mV <sub>RMS</sub>	<30mV <sub>PP</sub> <12mV <sub>RMS</sub>
-负载从10%-100% 调整需时	- Regulation 10-100% load	<2ms	<2ms	<2ms	<2ms	<2ms
-感测端调整电压	- Sense regulation	最大2V	最大2V	最大8V	最大2V	最大8V
-10-90% 的转换速率	- Slew rate 10-90%	最长30ms	最长30ms	最长30ms	最长30ms	最长30ms
输出电流	Output current	0...4A	0...40A	0...10A	0...60A	0...15A
-0-100% ΔU <sub>OUT</sub> 时的稳定性	- Stability at 0-100% ΔU <sub>OUT</sub>	<0.15%	<0.15%	<0.15%	<0.15%	<0.15%
-±10% ΔU <sub>IN</sub> 时的稳定性	- Stability at ±10% ΔU <sub>IN</sub>	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-纹波 <sup>(1)</sup>	- Ripple <sup>(1)</sup>	<3mA <sub>PP</sub> <1mA <sub>RMS</sub>	<19mA <sub>PP</sub> <7mA <sub>RMS</sub>	<1.2mA <sub>PP</sub> <0.45mA <sub>RMS</sub>	<19mA <sub>PP</sub> <7mA <sub>RMS</sub>	<1.2mA <sub>PP</sub> <0.45mA <sub>RMS</sub>
输出功率	Output power	640W	1000W	1000W	1500W	1500W
效率	Efficiency	92%	93%	93%	93%	93%
过压类别	Overtoltage category			2		
污染等级	Pollution degree			2		
保护等级	Protection class			1		
模拟编程	Analog programming		0...10V 或 0...5V, 可选 / 0...10V or 0...5V, selectable			
制冷方式	Cooling	自然冷却 Convectional	风扇制冷, 通风槽在产品顶部与底部 / Fan, holes at top & bottom			
工作温度	Operation temperature			0...50°C		
尺寸 (WxHxD)	Dimensions (WxHxD)	218x163x83mm	90x360x240mm	90x360x240mm	90x360x240mm	90x360x240mm
安装尺寸 (WxHxD)	Installation dim. (WxHxD)	218x190x85mm	90x370x295mm	90x370x295mm	90x370x295mm	90x370x295mm
重量	Weight	2.2kg	6.4kg	6.4kg	6.6kg	6.6kg
产品编号	Article number	21540406	21540407	21540409	21540408	21540410

技术参数	Technical Data	EA-PSI 880-170 R	EA-PSI 8200-70 R	EA-PSI 8500-30 R
AC输入电压	Input voltage AC	340...460V, 2ph	340...460V, 2ph	340...460V, 2ph
-频率	- Frequency	50/60 Hz	50/60 Hz	50/60 Hz
-功率因数	- Power factor	>0.99	>0.99	>0.99
输出电压 (DC)	Output voltage DC	0...80V	0...200V	0...500V
-负载0-100% 时的稳定性	- Stability at 0-100% load	<0.05%	<0.05%	<0.05%
-在±10% ΔU <sub>IN</sub> 时的稳定性	- Stability at ±10% ΔU <sub>IN</sub>	<0.02%	<0.02%	<0.02%
-纹波 <sup>(1)</sup>	- Ripple <sup>(1)</sup>	<150mV <sub>PP</sub> / <10mV <sub>RMS</sub>	<200mV <sub>PP</sub> / <25mV <sub>RMS</sub>	<250mV <sub>PP</sub> / <70mV <sub>RMS</sub>
-负载从10%-100% 调整需时	- Regulation 10-100% load	<1ms	<2ms	<2ms
-感测端调整电压	- Sense regulation	最大2.5V	最大6V	最大10V
-10-90% 的转换速率	- Slew rate 10-90%	17ms	17ms	17ms
输出电流	Output current	0...170A	0...70A	0...30A
-0-100% ΔU <sub>OUT</sub> 时的稳定性	- Stability at 0-100% ΔU <sub>OUT</sub>	<0.15%	<0.15%	<0.15%
-±10% ΔU <sub>IN</sub> 时的稳定性	- Stability at ±10% ΔU <sub>IN</sub>	<0.05%	<0.05%	<0.05%
-纹波 <sup>(1)</sup>	- Ripple <sup>(1)</sup>	<300mA <sub>PP</sub> / <40mA <sub>RMS</sub>	<44mA <sub>PP</sub> / <11mA <sub>RMS</sub>	<14mA <sub>PP</sub> / <8mA <sub>RMS</sub>
输出功率	Output power	5000W	5000W	5000W
效率	Efficiency	93%	95.2%	95.5%
过压类别	Overtoltage category		2	
污染等级	Pollution degree		2	
保护等级	Protection class		1	
模拟编程	Analog programming		0...10V 或 0...5V, 可选 / 0...10V or 0...5V, selectable	
制冷方式	Cooling		风扇制冷, 通风槽在产品顶部与底部/ Fan, vents at top & bottom	
工作温度	Operation temperature		0...50°C	
尺寸 (WxHxD)	Dimensions (WxHxD)	180x530x171mm	180x530x171mm	180x530x171mm
安装尺寸 (WxHxD)	Installation dim. (WxHxD)	180x595x175mm	180x595x175mm	180x595x175mm
重量	Weight	12kg	12kg	12kg
产品编号	Article number	21540411	21540413	21540412

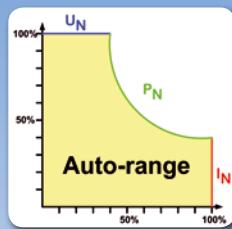
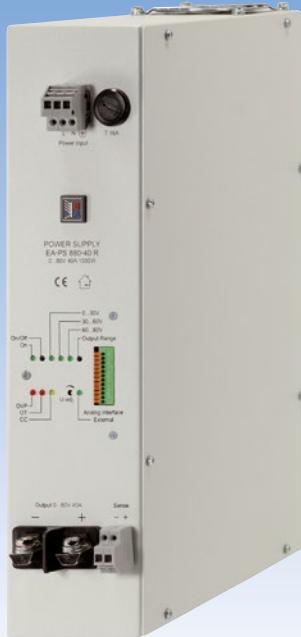
(1) RMS值: NF 0...300KHz, PP值: HF 0...20MHz / RMS value: LF 0...300kHz, PP value: HF 0...20MHz



# EA-PS 800 R 320W - 5000W

## 内嵌式直流电源 / BUILT-IN DC POWER SUPPLIES

**U**  
**OTP**  
**RS232**



1kW/1.5kW结构

- 宽范围输入电压90...264V (1.5kW以下型号)
- 两相输入电压340...460V (5kW型号)
- 效率高达 93.5%
- 输出功率: 320W 至 5000W
- 输出电压: 0...16V 至 0...500V
- 输出电流: 4A 至 170A
- 灵活的功率调整输出\*\*
- 有过压保护(OVP)
- 有过温保护(OT)
- LED灯指示状态
- 自动检测远程感测
- 0...10V模拟接口
- 自然风冷却\*
- 温控风扇制冷\*\*

- Wide range input 90...264V (up to 1.5kW models)
- Two-phase input 340...460V (5kW models)
- High efficiency up to 93.5%
- Output power ratings: 320W up to 5000W
- Output voltages: 0...16V up to 0...500V
- Output currents: 4A up to 170A
- Auto-ranging output stage \*\*
- Overvoltage protection (OVP)
- Overtemperature protection (OT)
- Status indication via LEDs
- Remote sense with automatic detection
- Analog interface for 0...10V
- Natural convection \*
- Temperature controlled fans for cooling \*\*

### 概要

EA-PS 800 R系列是一款由微处理器控制，采用最新技术设计的实验室电源。它配备多种功能，是用户使用非常方便和极其有效的工具。

其外壳专门设计成强挂或机柜安装式结构。产品概念是专门针对永久性且全自动操作。一旦出现市电停电或给产品通电后，他们会立即像之前一样工作。

### 输入

本系列采用主动式功率因数，1.5kW以下型号适合90V至264V AC的输入电压，而5kW型号则需在340V...460V AC三相输入电压下操作。

### DC输出

本系列有多款不同型号，可选择0...16V和0...500V输出电压，0...4A和0...170A输出电流，320W、640W、1000W、1500W和5kW输出功率的型号。每个型号的输出电压都可分成三个可调范围。输出电流与功率则不可调，受限于其额定值。

### General

The microprocessor controlled wall mount power supplies of the series EA-PS 800 R offer useful integrated functions, turning them into an extremely effective and highly comfortable tool for the user.

The enclosure is designed for wall mount or installation inside cabinets. The concept of the device is made for permanent and unattended operation. In case of a mains supply blackout or after powering up the devices, they immediately continue to work as before.

### Input

The equipment uses an active PFC. Models up to 1.5kW are suitable for worldwide operation on mains supply of 90...264V, 5kW models or require a three-phase connection with two phases and 340...460V AC.

### DC output

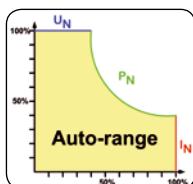
Different units with DC output voltages from 0...16V to 0...500V, currents from 4A to 170A and power ratings of 320W, 640W, 1000W, 1500W and 5kW are available. The output voltage of each model is divided into three selectable adjustment ranges. Current and power are not adjustable and thus limited to their nominal values.

\* 650W以下型号  
\*\* 1kW以上型号

\* Models up to 650W  
\*\* Models from 1kW

## 功率

1kW以上型号的输出功率灵活变化，在低电流时输出更高的电压，或在低电压时输出更大的电流，都由最大额定输出功率来限制。这些型号的设定功率都可调。因此仅用一台产品就可涵盖广范围的应用。



## Power

Models with 1kW or higher output power are equipped with a flexible auto-ranging output stage which provides a higher output voltage at lower output current, or a higher output current at lower output voltage, always limited to the max. nominal output power. The power set value is adjustable with these models. Therefore, a wide range of applications can already be covered by the use of just one single unit.

## 过压保护 (OVP)

为保护连接负载免受过压，可设定一过压保护极限值(OVP)。它能根据输出电压自动调节。意思是，它允许输出电压出现一个固定的偏差。一旦出现过压，会自动切断输出，前板与模拟接口都会发出报警信号。

## Overvoltage protection (OVP)

To protect equipment connected against excess of voltage, an overvoltage protection (OVP) is implemented, which will automatically adjust according to the output voltage. It means, it will follow the adjusted output voltage with a fixed offset. In case of overvoltage, the output will disconnect automatically and an alarm will be generated both on the front panel and the analog interface.

## 远程感测端

远程感测输入端可直接连到负载设备，以补偿连线上的压降。如果输入端已接上负载，本电源会自动纠正输出电压，以确保负载获得准确所需的电压值。

## Remote sense

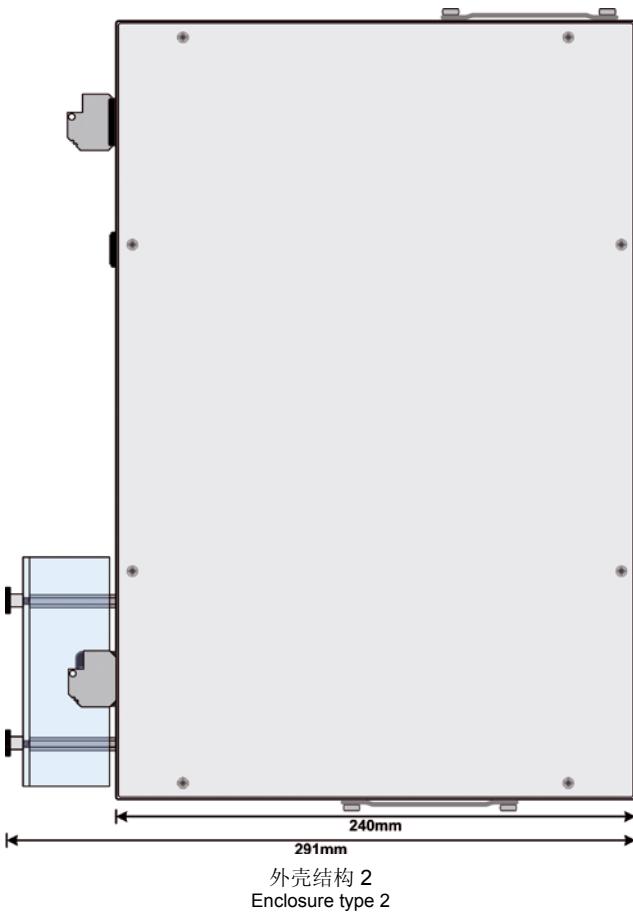
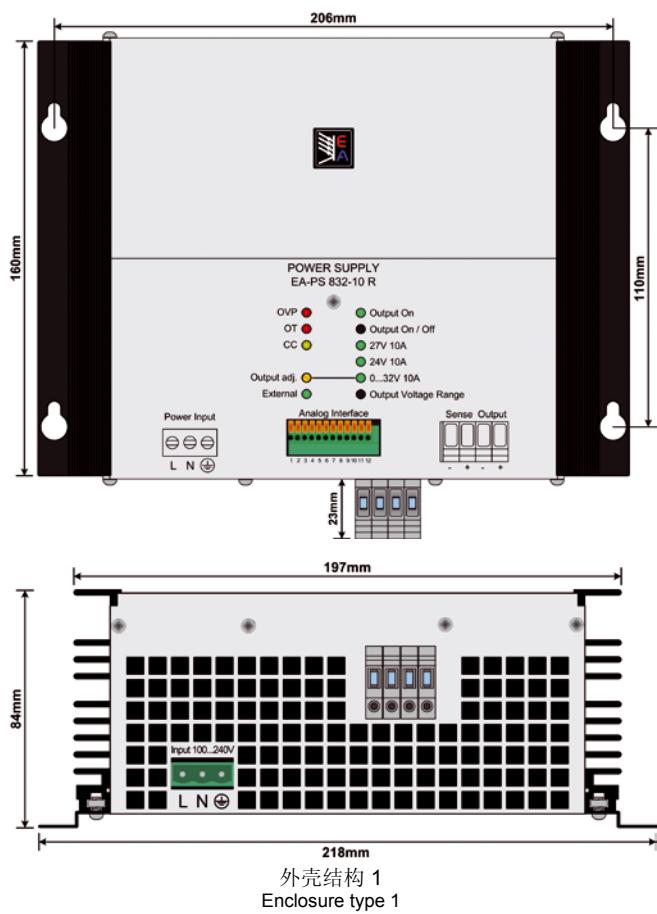
The sense input can be connected directly to the load to compensate voltage drops along the power cables. If the sense input is connected to the load, the power supply will correct the output voltage automatically in order to ensure that the accurate required voltage is available on the load.

## 模拟接口

模拟接口输入引脚接上0V...10V或0V...5V电压，可设置0...100%的输出电压与电流。模拟接口输出脚接上0V...10V或0V...5V电压，则可监控输出电压与电流。此外，还有几个输入脚和输出脚，用来控制和监控产品状态。

## Analog interface

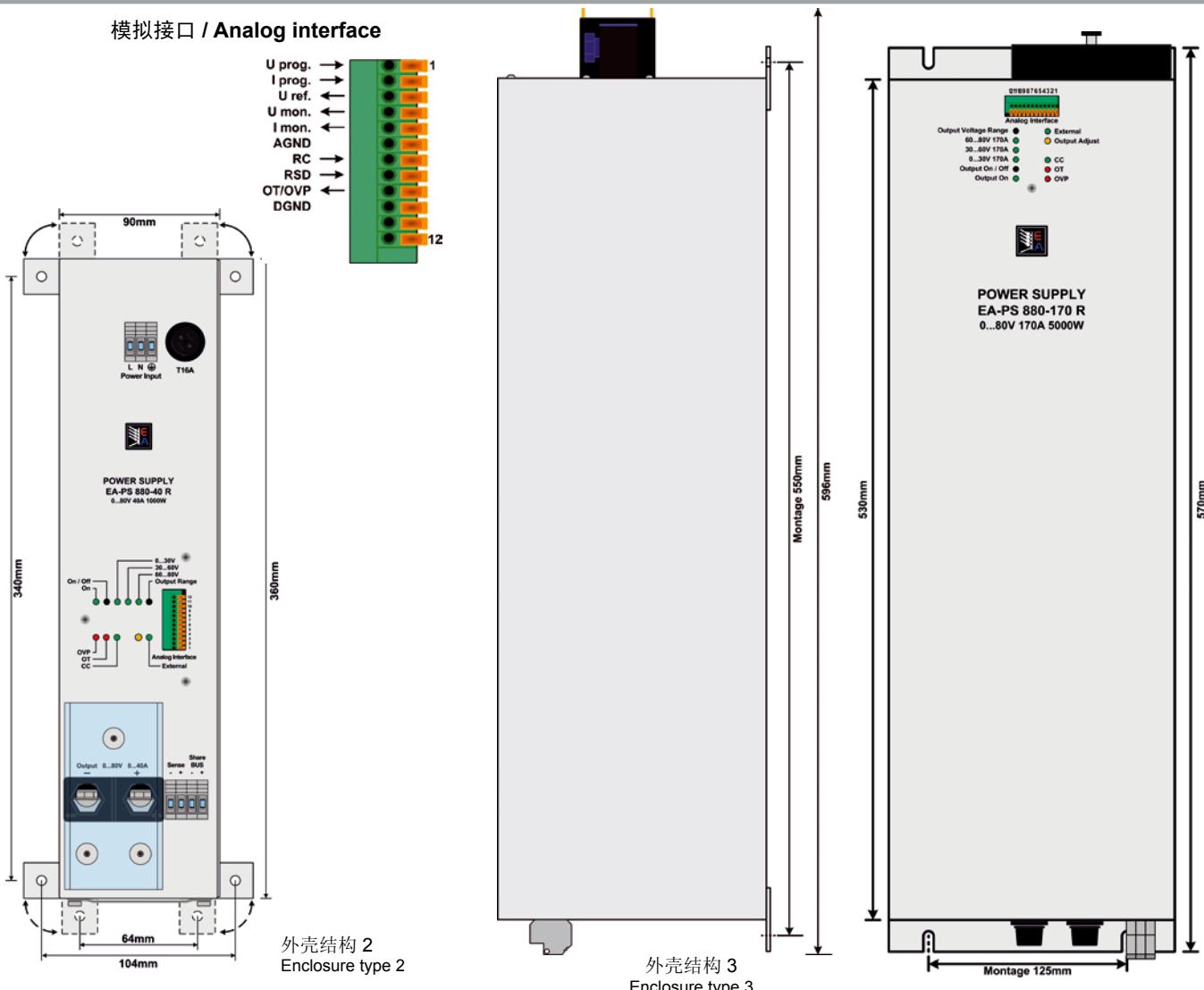
Analog inputs for voltages from 0...10V for setting voltage and current from 0...100% are available. For monitoring the output voltage and current, analog outputs are realised with voltages from 0...10V. Several digital inputs and outputs are available for controlling and monitoring the status.





# EA-PS 800 R 320W - 5000W

内嵌式直流电源 / BUILT-IN DC POWER SUPPLIES



技术参数	Technical Data	EA-PS 816-20 R	EA-PS 832-10 R	EA-PS 865-05 R	EA-PS 832-20 R	EA-PS 865-10 R
输入电压	Input voltage AC	90...264V, 1ph+N	90...264V, 1ph+N	90...264V, 1ph+N	90...264V, 1ph+N	90...264V, 1ph+N
-频率	- Frequency	45...65Hz	45...65Hz	45...65Hz	45...65Hz	45...65Hz
-功率因数	- Power factor	>0.99	>0.99	>0.99	>0.99	>0.99
输出电压 (DC)	Output voltage DC	0...16V	0...32V	0...65V	0...32V	0...65V
-负载0-100% 时的稳定性	- Stability at 0-100% load	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-在±10% Δ U <sub>IN</sub> 时的稳定性	- Stability at ±10% Δ U <sub>IN</sub>	<0.02%	<0.02%	<0.02%	<0.02%	<0.02%
-纹波 <sup>(1)</sup>	- Ripple <sup>(1)</sup>	<40mV <sub>PP</sub> <4mV <sub>RMS</sub>	<100mV <sub>PP</sub> <10mV <sub>RMS</sub>	<150mV <sub>PP</sub> <20mV <sub>RMS</sub>	<100mV <sub>PP</sub> <8mV <sub>RMS</sub>	<150mV <sub>PP</sub> <10mV <sub>RMS</sub>
-负载从10%-100% 调整需时	- Regulation 10-100% load	<2ms	<2ms	<2ms	<2ms	<2ms
-感测端调整电压	- Sense regulation	最大2V	最大2V	最大2V	最大2V	最大2V
-10-90% 的转换速率	- Slew rate 10-90%	最长30ms	最长30ms	最长30ms	最长30ms	最长30ms
输出电流	Output current	0...20A	0...10A	0...5A	0...20A	0...10A
-0-100%Δ U <sub>OUT</sub> 时的稳定性	- Stability at 0-100% Δ U <sub>OUT</sub>	<0.15%	<0.15%	<0.15%	<0.15%	<0.15%
-±10% Δ U <sub>IN</sub> 时的稳定性	- Stability at ±10% Δ U <sub>IN</sub>	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-纹波 <sup>(1)</sup>	- Ripple <sup>(1)</sup>	<60mA <sub>PP</sub> <10mA <sub>RMS</sub>	<35mA <sub>PP</sub> <7mA <sub>RMS</sub>	<12mA <sub>PP</sub> <3mA <sub>RMS</sub>	<65mA <sub>PP</sub> <10mA <sub>RMS</sub>	<25mA <sub>PP</sub> <3mA <sub>RMS</sub>
输出功率	Output power	320W	320W	325W	640W	650W
效率	Efficiency	90.5%	89%	92%	90.5%	91%
过压类别	Overvoltage category				2	
污染等级	Pollution degree				2	
保护等级	Protection class				1	
模拟编程	Analog programming				0...10V	
制冷方式	Cooling				自然冷却, 通风槽在产品顶部与底部 / Convectional, ventilation slots at top & bottom	
工作温度	Operation temperature				0...50°C	
尺寸 (WxHxD)	Dimensions (WxHxD)	218x163x83mm	218x163x83mm	218x163x83mm	218x163x83mm	218x163x83mm
安装尺寸 (WxHxD)	Installation dim. (WxHxD)	218x190x85mm	218x190x85mm	218x190x85mm	218x190x85mm	218x190x85mm
重量	Weight	2.2kg	2.2kg	2.2kg	2.2kg	2.2kg
产品编号	Article number	21540101	21540102	21540103	21540104	21540105

(1) RMS值: NF 0...300KHz, PP值: HF 0...20MHz / RMS value: LF 0...300kHz, PP value: HF 0...20MHz

# EA-PS 800 R 320W - 5000W

内嵌式直流电源 / BUILT-IN DC POWER SUPPLIES



技术参数	Technical Data	EA-PS 8160-04 R	EA-PS 880-40 R	EA-PS 8360-10 R	EA-PS 880-60 R	EA-PS 8360-15 R
输入电压	Input voltage AC	90...264V, 1ph+N	90...264V, 1ph+N	90...264V, 1ph+N	90...264V, 1ph+N	90...264V, 1ph+N
-频率	- Frequency	45...65Hz	45...65Hz	45...65Hz	45...65Hz	45...65Hz
-功率因数	- Power factor	>0.99	>0.99	>0.99	>0.99	>0.99
输出电压 (DC)	Output voltage DC	0...160V	0...80V	0...360V	0...80V	0...360V
-负载0-100% 时的稳定性	- Stability at 0-100% load	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-在±10% ΔU <sub>IN</sub> 时的稳定性	- Stability at ±10% ΔU <sub>IN</sub>	<0.02%	<0.02%	<0.02%	<0.02%	<0.02%
-纹波 <sup>(1)</sup>	- Ripple <sup>(1)</sup>	<120mV <sub>PP</sub> <20mV <sub>RMS</sub>	<10mV <sub>PP</sub> <5mV <sub>RMS</sub>	<30mV <sub>PP</sub> <12mV <sub>RMS</sub>	<10mV <sub>PP</sub> <5mV <sub>RMS</sub>	<30mV <sub>PP</sub> <12mV <sub>RMS</sub>
-负载从10%-100% 调整需时	- Regulation 10-100% load	<2ms	<2ms	<2ms	<2ms	<2ms
-感测端调整电压	- Sense regulation	最大 2V	最大2V	最大8V	最大2V	最大8V
-10-90% 的转换速率	- Slew rate 10-90%	最长30ms	最长30ms	最长30ms	最长30ms	最长30ms
输出电流	Output current	0...4A	0...40A	0...10A	0...60A	0...15A
-0-100%ΔU <sub>OUT</sub> 时的稳定性	- Stability at 0-100% ΔU <sub>OUT</sub>	<0.15%	<0.15%	<0.15%	<0.15%	<0.15%
-±10% Δ U <sub>IN</sub> 时的稳定性	- Stability at ±10% ΔU <sub>IN</sub>	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-纹波 <sup>(1)</sup>	- Ripple <sup>(1)</sup>	<3mA <sub>PP</sub> <1mA <sub>RMS</sub>	<19mA <sub>PP</sub> <7mA <sub>RMS</sub>	<1.2mA <sub>PP</sub> <0.45mA <sub>RMS</sub>	<19mA <sub>PP</sub> <7mA <sub>RMS</sub>	<1.2mA <sub>PP</sub> <0.45mA <sub>RMS</sub>
输出功率	Output power	640W	1000W	1000W	1500W	1500W
效率	Efficiency	92%	93%	93%	93%	93%
过压类别	Overtoltage category			2		
污染等级	Pollution degree			2		
保护等级	Protection class			1		
模拟编程	Analog programming			0...10V		
制冷方式	Cooling	自然风冷 / Conventional	风扇, 通风孔在外壳顶部与底部 / Fan, holes at top & bottom			
工作温度	Operation temperature			0...50°C		
尺寸 (WxHxD)	Dimensions (WxHxD)	218x163x83mm	90x360x240mm	90x360x240mm	90x360x240mm	90x360x240mm
安装尺寸 (WxHxD)	Installation dim. (WxHxD)	218x190x85mm	90x370x295mm	90x370x295mm	90x370x295mm	90x370x295mm
重量	Weight	2.2kg	6.4kg	6.4kg	6.6kg	6.6kg
产品编号	Article number	21540106	215401107	21540109	21540108	21540110

技术参数	Technical Data	EA-PS 880-170 R	EA-PS 8200-70 R	EA-PS 8500-30 R
输入电压	Input voltage AC	340...460V, 2ph	340...460V, 2ph	340...460V, 2ph
-频率	- Frequency	50/60Hz	50/60Hz	50/60Hz
-功率因数	- Power factor	>0.99	>0.99	>0.99
输出电压 (DC)	Output voltage DC	0...80V	0...200V	0..500V
-负载0-100% 时的稳定性	- Stability at 0-100% load	<0.05%	<0.05%	<0.05%
-在±10% Δ U <sub>IN</sub> 时的稳定性	- Stability at ±10% ΔU <sub>IN</sub>	<0.02%	<0.02%	<0.02%
-纹波 <sup>(1)</sup>	- Ripple <sup>(1)</sup>	<150mV <sub>PP</sub> / <10mV <sub>RMS</sub>	<200mV <sub>PP</sub> / <25mV <sub>RMS</sub>	<250mV <sub>PP</sub> / <70mV <sub>RMS</sub>
-负载从10%-100% 调整需时	- Regulation 10-100% load	<1ms	<2ms	<2ms
-感测端调整电压	- Sense regulation	max. 2.5V	max. 6V	max. 10V
-10-90% 的转换速率	- Slew rate 10-90%	17ms	17ms	17ms
输出电流	Output current	0...170A	0...70A	0..30A
-0-100%ΔU <sub>OUT</sub> 时的稳定性	- Stability at 0-100% ΔU <sub>OUT</sub>	<0.15%	<0.15%	<0.15%
-±10% Δ U <sub>IN</sub> 时的稳定性	- Stability at ±10% ΔU <sub>IN</sub>	<0.05%	<0.05%	<0.05%
-纹波 <sup>(1)</sup>	- Ripple <sup>(1)</sup>	<300mA <sub>PP</sub> / <40mA <sub>RMS</sub>	<44mA <sub>PP</sub> / <11mA <sub>RMS</sub>	<14mA <sub>PP</sub> / <8mA <sub>RMS</sub>
输出功率	Output power	5000W	5000W	5000W
效率	Efficiency	93%	95.2%	95.5%
过压类别	Overtoltage category		2	
污染等级	Pollution degree		2	
保护等级	Protection class		1	
模拟编程	Analog programming		0...10V	
制冷方式	Cooling	风扇, 通风孔在外壳顶部与底部 / Fan, holes at top & bottom		
工作温度	Operation temperature		0...50°C	
尺寸 (WxHxD)	Dimensions (WxHxD)	180x530x171mm	180x530x171mm	180x530x171mm
安装尺寸 (WxHxD)	Installation dim. (WxHxD)	180x595x175mm	180x595x175mm	180x595x175mm
重量	Weight	12kg	12kg	12kg
产品编号	Article number	21540122	21540124	21540123

(1) RMS值: NF 0...300KHz, PP值: HF 0...20MHz / RMS value: LF 0...300kHz, PP value: HF 0...20MHz



EA-PS 524-11R



EA-PS 512-21T



EA-PS 1501 T

## ▶ EA-PS 500

- 宽范围输入电压90...264V, 带主动式PFC
- 输出功率: 150W 至 300W
- 输出电压: 12V, 24V, 42V 与 48V
- 输出电流: 5.2A 至 21A
- 输出电压可调
- 远程感测输入
- 过载与短路保护
- 过温保护(OT)
- 有桌面式与墙挂式结构:
  - 桌面式外壳配插座 (T型插座)
  - 墙挂式外壳配螺丝插座 (R型插座)

## ▶ EA-PS 500

- Wide input voltage range 90...264V with active PFC
- Output powers: 150W up to 300W
- Output voltages: 12V, 24V, 42V and 48V
- Output currents: 5.2A up to 21A
- Output voltage adjustable
- Remote sense input
- Overload- and short-circuit-proof
- Overtemperature protection (OT)
- Desk and wall mounting versions
  - Desk units with 4mm sockets (type T)
  - Wall units with screw terminals (type R)

**EA-PS 500**

EA-PS 500固定输出电源系列专为要求稳定直流电环境而设计。随附的挂条可拆卸。温控风扇保证产品恰当地制冷。

限流功能按照U-I特性运行, 使产品更适合并联操作。

通过螺丝刀可调节输出电压 (+15/-8%)。

远程感测线路可以对直流输出线上的压降进行一定的补偿。

宽范围的输入电压90...264V<sub>AC</sub> 适合全世界范围内使用。

**EA-PS 1501 T**

该通用电源为小功率电源, 用可调电位器可调节直流输出电压和电流。出厂产品附有带EU插头电源线为市电连接线。本产品小巧, 是业余爱好者、实验室、学校和教育培训机构的理想之选。

**EA-PS 500**

These fixed output power supplies series EA-PS 500 are designed for operation of equipment requiring a stable DC supply. The mounting brackets are detachable. A temperature controlled fan ensures appropriate cooling.

The output current limitation works according to an U-I characteristic and enables the units to be used also for parallel standby operation.

The output voltage can be adjusted with a screw driver (+15/-8%).

A remote sensing circuit can compensate a typical voltage drops along the DC output cables up to a certain level.

The wide input voltage range of 90...264V<sub>AC</sub> allow flexible, worldwide usage.

**EA-PS 1501 T**

This universal power supply is a stabilised small power unit which allows to adjust DC output voltage and current with separate potentiometers. A mains cord with Euro plug is installed for AC input. The device is very handy and ideal for the use in hobby, laboratory, school and education.

技术参数	Technical Data	PS 512-11R/T	PS 524-05R/T	PS 512-21R/T	PS 524-11R/T	PS 536-07R/T	PS 548-05R/T	PS 1501 T
AC输入电压	Input voltage AC	90...264V	90...264V	90...264V	90...264V	90...264V	90...264V	100...253V
-频率	- Frequency	45...65Hz	45...65Hz	45...65Hz	45...65Hz	45...65Hz	45...65Hz	50/60Hz
DC输出电压	Output voltage DC	11...14V	22...29V	11...14V	22...29V	32...43V	43...58V	2.7...15V
-负载0-100% 时的稳定性	- Stability 0-100% load	≤100mV	≤50mV	≤100mV	≤100mV	≤100mV	≤70mV	≤20mV
-纹波 LF	- Ripple LF	≤25mV <sub>RMS</sub>	≤20mV <sub>RMS</sub>	≤40mV <sub>RMS</sub>	≤25mV <sub>RMS</sub>	≤20mV <sub>RMS</sub>	≤20mV <sub>RMS</sub>	≤30mV <sub>RMS</sub>
输出电流	Output current	10.5A	5.2A	21A	10.5A	6A	5.2A	0.2...1A
输出功率	Output power	150W	150W	300W	300W	300W	300W	15W
尺寸 (WxHxD)	Dim. (WxHxD) mm	110x58x226	110x58x226	110x58x226	110x58x226	110x58x226	110x58x226	77x66x112
工作温度	Operation temperature	0...40°C	0...40°C	0...40°C	0...40°C	0...40°C	0...40°C	0...45°C
重量	Weight	1.65kg	1.65kg	1.75kg	1.75kg	1.75kg	1.75kg	0.9kg
产品编号	Article number	35320124 (R)	35320125 (R)	35320132 (R)	35320133 (R)	35320202 (R)	35320135 (R)	38917204
		35320112 (T)	35320113 (T)	35320120 (T)	35320121 (T)	35320199 (T)	35320123 (T)	



# EA-TWI, EA-SRX-PB 80W - 1000W

## DC-AC 逆变器 / DC-AC INVERTERS



EA-TWI 150-12



EA-SRX-PB 600-12



EA-TWI 100-12

- ↑ DC-输入电压: 12V 和 24V
- ↑ 输出电压 230V / 50Hz
- ↑ 输出功率: 80W至1000W
- ↑ 修正正弦波, 采用脉宽调制 (PWM)
- ↑ 输入/输出电隔离 (SRX-PB)
- ↑ 高效
- ↑ 输入欠压保护警报
- ↑ 输入过压保护警报
- ↑ 过温 / 过载 / 短路保护
- ↑ 符合EN 60950, EN 60146-2安规标准
- ↑ EMI: EN 55014/1 和 EN 55014/2

- ↑ DC input voltages: 12V and 24V
- ↑ Output voltage: 230V / 50Hz
- ↑ Output power ratings: 80W up to 1000W
- ↑ Modified sine wave, pulse wide modulation (PWM)
- ↑ Input/output galvanically isolated (SRX-PB)
- ↑ High efficiency
- ↑ Input undervoltage protection with alarm
- ↑ Input overvoltage protection with alarm
- ↑ Overtemperature / overload / short-circuit protection
- ↑ Safety EN 60950, EN 60146-2
- ↑ EMI: EN 55014/1 and EN 55014/2

DC-AC 逆变器专用于无市电供应的区域作变通应用。本产品与12V或24V直流源，特别是汽车或卡车上的电池一起操作。交流电压 (230V/50Hz) 从2或3 pin插座输出，传输给功率设备，如：电脑，笔记本，TV接收器等，以及其它工业设备。

本逆变器输出修正弦的电压。TWI系列输入-输出无电隔离，而EA-SRX-PB系列则有。

它具有扩展保护功能，比如：过载/过热保护和电池保护。

输出功率在300W以下的类型配2极Eu型扁平插座，600W至1000W的类型配Schuko插座。

DC-AC inverters are designed to operate in versatile applications where no mains supply is available. They operate with a 12V or 24V DC source, typically a car or truck battery. The AC output voltage (230V/50Hz) is available at a 2 or 3 pin socket (depending on model) to power equipment like computers, notebooks, TV receivers etc., as well as some industrial equipment.

The inverters provide a modified sine wave output voltage. The series TWI is not galvanically insulated, the series SRX-PB is. The units are equipped with extensive protection facilities such as overload/overheat and battery protection.

Models up to 300W are equipped with a 2-pole Euro flat socket, units with 600W to 1000W with Schuko socket.

技术参数	Technical Data	TWI 100-12	TWI 150-12	TWI 150-24	TWI 220-12	TWI 220-24	SRX-PB 150-12	SRX-PB 150-24
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DC电压	Input voltage DC	11...15V	11...15V	20...30V	11...15V	20...30V	11...16V	21...30V
AC输出电压	Output voltage AC	230V ±5%	230V / 50Hz	230V / 50Hz				
输出功率	Output power	80W	130W	130W	180W	180W	150W	150W
峰值输出功率	Output peak power	100W	140W	140W	220W	220W	300W	300W
效率	Efficiency	~90%	~90%	~90%	~90%	~90%	>90%	>90%
波形	Waveform	梯形/Trapez	梯形/Trapez	梯形/Trapez	梯形/Trapez	梯形/Trapez	MSW*	MSW*
尺寸WxHxD (mm)	Dim. WxHxD (mm)	65x38x142	70x45x125	70x45x125	70x45x155	70x45x155	149x66x116	149x66x116
重量	Weight	0.22kg	0.40kg	0.40kg	0.5kg	0.5kg	0.8kg	0.8kg
产品编号	Article number	35310129	35310100	35310101	35310163	35310137	35300114	35300115

技术参数	Technical Data	SRX-PB 300-12	SRX-PB 300-24	SRX-PB 600-12	SRX-PB 600-24	SRX-PB 1000-12	SRX-PB 1000-24
DC电压	Input voltage DC	11...16V	21...30V	11...15V	21...30V	11...15V	21...30V
AC输出电压	Output voltage AC	230V / 50Hz	230V / 50Hz				
输出功率	Output power	300W	300W	600W	600W	1000W	1000W
峰值输出功率	Output peak power	500W	500W	1000W	1000W	2000W	2000W
效率	Efficiency	>90%	>90%	~85%	~85%	~85%	~85%
波形	Waveform	MSW*	MSW*	MSW*	MSW*	MSW*	MSW*
尺寸WxHxD (mm)	Dim. WxHxD (mm)	149x66x128	149x66x128	238x85x243	238x85x243	238x85x323	238x85x323
重量	Weight	0.8kg	0.8kg	2.3kg	2.3kg	3.2kg	3.2kg
产品编号	Article number	35300116	35300117	35300118	35300119	35300120	35300121

\* MSW = Modifizierter Sinus, trapezförmig / Modified sine wave, trapezoidal



## EA-IF 系列 / EA-IF SERIES

数字 & 模拟接口卡 / DIGITAL & ANALOG INTERFACE CARDS



EA-IF Interfaces / 接口

- 可改装、可插拔、可更换
- 安装简易（即插即用）
- 通过产品上的设置菜单可简便地进行配置
- 多台不同设备可轻易联网
- 绝缘耐压高达2000V
- 软件刻录成CD，配有工具和说明书
- 对所选接口可使用LabView VIs

- Retrofittable, pluggable, replaceable
- Simple installation (plug 'n play)
- Easy configuration via a setup menu on the device
- Simple networking of different devices
- Galvanic isolation up to 2000V
- Software CD with tools and documentation
- LabView VIs for selected interfaces

### 概述

EA接口卡都是可插拔式数字或模拟卡，适用于不同系列的可编程电源、充电器或电子负载。

对于**PSI 800 R** 和 **BCI 800 R** 系列墙挂式产品，有专门的短款接口卡（其型号名称结尾为 „2“）。

### 支持LabView

针对USB, RS232, GPIB与Ethernet数字接口卡，我们可供即时使用的LabView VIs，见下表。

### 支持其他编程语言

光碟上的文件包内有一通讯协议。因此所有接口卡都能应用于任何编程语言下。

### 软件和驱动程序

随同接口卡，还附有一CD，里面含有相关文件和软件。软件分为Windows软件套件**EasySoft**（也可参考125页）和LabView VIs。特定接口卡支持的软件和产品型号请参考下表。

### 应用

这些接口卡涵盖了很多应用领域。比如：USB接口几乎在所有电脑上都配备。RS232接口可在产品与电脑之间架起一个长达30m的距离。**Ethernet**-以太网卡可将多台产品集成到标准或公司网络，也可从中间点对其控制与监控。

CAN用于直接将多台产品联网，从而为控制器（如电脑或控制件）连成一个电源或电子负载串。

### General

The EA interface cards are pluggable digital or analog cards for selected series of programmable power supplies, battery charger or electronic loads.

There are special shortened versions (models with a „2“ at the end of the article name) available for wall mount series **PSI 800 R** and **BCI 800 R**. See table below.

### Support for LabView

For the digital interface with USB, RS232, GPIB and Ethernet we provide ready-to-use LabView VIs. See table below.

### Support for other programming languages

The communication protocol is documented and included in the package. Thus all interfaces can be integrated in virtually any programming language.

### Software and drivers

The interface cards are delivered with a tools CD that includes documentation and software. The software is divided into the Windows software suite **EasySoft** (also see page 125) and LabView compatible VIs. For the software and device support of the particular interface cards see table below.

### Applications

The interfaces cover many application areas. For example, USB is practically available everywhere with a PC. With RS232, the user can bridge distances of up to 30m between device and PC. Using Ethernet many devices can be integrated into a standard local or company network and can be controlled and monitored from a central location.

CAN is used to network multiple devices directly, making it easier to connect a string of power supplies or electronic loads to the controlling unit, such as PC or PLC.

**型号概览****USB**

- Typ: EA-IF-U1 产品编号 / Art.Nr. 33100212
- Typ: EA-IF-U2 产品编号 / Art.Nr. 33100220
- 带虚拟COM口 (VCP) 的USB驱动程序
- 传输速度: 最大57600 Bd

**CAN**

- Typ: EA-IF-C1 产品编号 / Art.Nr. 33100214
- Typ: EA-IF-C2 Art.Nr. 33100222
- 可变数据传输速率高达1Mbit/s
- 支持规格为2.0A的标准CAN
- 内置可选总线终端
- 兼容Vector™软件 (DBC文件)

**Analog**

- Typ: EA-IF-A1 产品编号 / Art.Nr. 33100215
- 电压范围可调 (如: 0...5V, 2...7V)
- 数字与模拟输入脚和输出脚
- 输出/输入脚可参数化

**IEEE/GPIB**

- Typ: EA-IF-G1 产品编号 / Art.Nr. 33100216
- 指令执行时间典型值<30ms
- SCPI指令集
- 总线上可连接多达15台产品

**RS232**

- Typ: EA-IF-R1 产品编号 / Art.Nr. 33100213
- Typ: EA-IF-R2 产品编号 / Art.Nr. 33100221
- 可变数据传输速率高达57600 Baud

**Ethernet/LAN**

- Typ: EA-IF-E1B 产品编号 / Art.Nr. 33100227
- SCPI指令集
- 网络控制接口
- 一额外的USB端口可执行IF-U1卡的功能

**Profibus**

- Typ: EA-IF-PB1 产品编号 / Art.Nr. 33100219
- 符合IEC 61158标准
- DPV0与DPV1从机
- 数据传输速率高达12MBit/s
- 一个总线段可连接多达30台设备
- 一额外的USB端口可执行IF-U1卡的功能

**Model overview****USB**

- Type: EA-IF-U1 Art.No. 33100212
- Type: EA-IF-U2 Art.No. 33100220
- USB driver with virtual COM port (VCP)
- Transfer speed: max. 57600 Bd

**CAN**

- Type: EA-IF-C1 Art.No. 33100214
- Type: EA-IF-C2 Art.No. 33100222
- Variable data transmission rates up to 1Mbit/s
- Supports standard CAN specification 2.0A
- Integrated, selectable bus termination
- Vector™ software compatible (DBC files available)

**Analog**

- Type: EA-IF-A1 Art.No. 33100215
- Voltage range adjustable (e.g. 0...5V, 2...7V)
- Digital and analog inputs and outputs
- Outputs / inputs parameterisable

**IEEE/GPIB**

- Type: EA-IF-G1 Art.No. 33100216
- Command execution time <30ms typ.
- SCPI command set
- Up to 15 devices at the bus

**RS232**

- Type: EA-IF-R1 Art.No. 33100213
- EA-IF-R2 Art.No. 33100221
- Variable baud rates up to 57600 Baud

**Ethernet/LAN**

- Type: EA-IF-E1B Art.Nr. 33100227
- SCPI command set
- Web control interface
- Integrated IF-U1 functionality by add. USB port

**Profibus**

- Type: EA-IF-PB1 Art.Nr. 33100219
- According to standard IEC61158
- DPV0 and DPV1 slave
- Data transmission rate up to 12MBit/s
- Up to 30 units on a bus segment
- Integrated IF-U1 functionality by add. USB port

	IF-U1	IF-U2	IF-R1	IF-R2	IF-C1	IF-C2	IF-G1	IF-E1B	IF-PB1	IF-A1
	USB	USB	RS232	RS232	CAN	CAN	GPIB	Ethernet	Profibus	Analog
PS 8000 T / DT / 2U	•			•		•		•	•	
PS 8000 3U	•			•		•		•	•	
PSI 8000 T / DT / 2U	•		•		•			•	•	
PSI 8000 3U	•		•		•			•	•	
PSI 800 R		•		•		•				
BCI 800 R		•		•		•				
PSI 9000	•		•		•		•	•	•	•
EL 3000	•		•		•		•	•	•	
EL 9000 (HP)	•		•		•		•	•	•	
EasyLoad Lite	•	•	•	•				•		
EasyPower Lite	•	•	•	•				•		
LabView VIs	•	•	•	•			•	•		
Isolation DC (max.)	2000V	1500V	1000V	2000V						
隔离电压 (最大)										

<sup>1)</sup> 仅能通过额外的USB端口完成 / only via the additional USB port

提示: 表格上半部分显示哪些产品支持哪类接口卡。下半部分显示哪类接口卡具有哪些软件。意思是, 带Ethernet接口卡的电子负载产品支持EasyLoad Lite软件, 但是只能使用接口卡的USB端口。

Note: the upper part of the table indicates what device supports which interface cards. The lower part shows, for which interface cards there is software available. It means, for example, that an electronic load with an Ethernet card is supported by EasyLoad Lite, but only if the USB port of the card is used.



# EasySoft

*Control and Monitoring*



*...making it Easy for you*

利用基于Windows操作系统的软件工具，可以控制和监控我们的电源与电子负载。这些工具操作简单，仅需几步设置。显示界面全为英文。不过仅能与下列产品系列和接口卡兼容。也可参考120页。

Windows based software tools are available to control and monitor power supplies and electronic loads. These are very easy to handle with a minimum of setup required. The GUI will be completely in english. The tools are only compatible to the device series and interface cards listed below. Also see page 120.

#### EasyPower Lite (电源用)

- 一个实例控制一台产品
- 与下列系列产品兼容:
  - PSI 9000
  - PSI 8000 T / DT / 2U / 3U
  - PS 8000 T / DT / 2U / 3U
  - PSI 800 R
- 数据采集 (CSV文档)
- 以列表形式列出的半自动序列
- 与带USB, Ethernet或RS232端口的接口卡兼容

#### EasyLoad Lite (电子负载用)

- 一个实例控制一台产品
- 与下列系列产品兼容:
  - EL 3000
  - EL 9000
  - EL 9000 HP
- 数据采集 (CSV文档)
- 以列表形式列出的半自动序列
- 与带USB, Ethernet或RS232端口的接口卡兼容

#### EasyPS2000 (PS 2000 B电源用)

- 一个实例控制一台产品
- 产品固件可更新
- 数据采集 (CSV文档)
- 以列表形式 (CSV文档) 列出的半自动序列

注意：软件是免费的，但是需要为每台产品购买一个注册码，可将产品采购证明与产品系列号发送到ps2000bsoft@elektro-automatik.de邮箱购买。购买后，您可申请免费的软件光盘与一条迷你USB连接线。

#### EasyPower Lite for power supplies

- One device can be controlled per instance
- Compatible to the device series:
  - PSI 9000
  - PSI 8000 T / DT / 2U / 3U
  - PS 8000 T / DT / 2U / 3U
  - PSI 800 R
- Data acquisition (CSV files)
- Semi-automatic sequences by list tables (CSV)
- Compatible to interface cards with USB, Ethernet or RS232 port

#### EasyLoad Lite for electronic loads

- One device can be controlled per instance
- Compatible to the device series:
  - EL 3000
  - EL 9000
  - EL 9000 HP
- Data acquisition (CSV files)
- Automated sequences by list tables
- Compatible to interface cards with USB, Ethernet or RS232 port

#### EasyPS2000 for PS 2000 B power supplies

- One device can be controlled
- Firmware updates for the devices
- Data acquisition (CSV files)
- Semi-automatic sequences by list tables (CSV)

Note: The software EasyPS2000 is free of charge, but requires a licence code per device, which can be ordered by sending an e-mail with the proof of purchase and the device serial number to ps2000bsoft@elektroautomatik.de. After purchase of an licence code, a software CD with a mini USB cable can be shipped free of charge upon request.

## 各特征与选项的符号释义

## Meaning of the symbols for features and options

	范围可调的电压控制符号	Voltage control with adjustable voltage
	范围可调的电流控制符号	Current control with adjustable current
	范围可调的功率控制符号	Power control with adjustable power
	范围可调的内阻控制符号（可选）	Internal resistance control with adjustable resistance (optional)
	过压保护，可调或自动	Overshoot protection, adjustable or automatic
	过温保护	Overtemperature protection
	内置模拟接口	Integrated analog interface
	并联操作用共享总线	Share Bus for parallel connection
	19“机柜外壳	19" rack compliant enclosure
	函数发生器	Function generator
	有汇总功能的主从操作	Master-slave feature with totals formation

	内置USB端口，或可选内置USB接口卡	Built-in USB port or optional plug-in USB interface card
	内置RS232数字接口卡，可选	Optional, digital plug-in interface card RS232
	可选或机器预装内置Ethernet数字接口卡	Optional or installed, digital plug-in interface card Ethernet
	内置IEEE/GPIB数字接口卡，可选	Optional, digital plug-in interface card IEEE/GPIB
	内置CAN数字接口卡，可选	Optional, digital plug-in interface card CAN
	内置Profibus数字接口，可选	Optional, digital plug-in interface card Profibus
	内置水冷器，可选	Optional, built-in watercooler
	配各种工业接口的可拆卸式接口模块，可选	Optional, retrofittable and exchangeable interface modules with various industrial interfaces



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