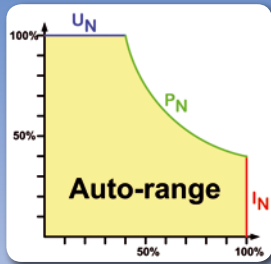


EA-PSI 800 R 320W - 5000W

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



320W/640W 类型

- 宽范围输入电压90...264V (1500W以下型号)
- 两相输入电压340...460V (5000W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
- 报警管理系统
- 自然风冷*
- 温控风扇制冷**
- 其它选项

- **Wide range input 90...264V (models up to 1500W)**
- **Two-phase input 340...460V (5000W 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**
- **Analogue interface for 0...10V or 0...5V**
- **Alarm management**
- **Natural convection 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

本系列采用主动式功率因数，使产品在全世界范围内都适用，输入电压为90V至264VAC（针对1.5kW以下型号），或在340V...460V AC两相输入电压（针对5kW型号）下操作。

功率

本系列所有产品输出功率灵活变化，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。

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 and are suitable for worldwide operation on mains supply of 90...264V (models up to 1500W) or require a two-phase input with 340...460V AC (5000W models).

Power

All models are equipped with a flexible autoranging output stage. It 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.

* 650W以下型号

** 1000W以上型号

* Models up to 650W

** Models from 1000W

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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。

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

5000W型号有一额外的共享总线端子，可轻易将10台产品并联，从而获得均匀的电流分布。

选购件

- 可通过RS232、CAN、USB绝缘数字接口，用电脑来控制产品。接口插槽位于产品后板，方便用户插上新接口或替换当前接口。本产品将自动检测接口卡，并要求进行少许的配置或不用配置。随接口卡附有免费Windows软件，可用来控制和监控，记录数据和排序。也可参考63和64页。
- 水冷式制冷系统（仅针对5kW型号）

Output

Different units with output voltages from 0...16V to 0...500V, output currents from 0...4A to 0...170A and 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 display.

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 analogue 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 leads. If the sense input is connected to the load, the power supply will correct the output voltage to ensure that the accurate required voltage is available on the load.

Analogue interface

Analogue inputs for the common voltage range 0V...10V or 0V...5V are available to set output voltage and current from 0...100%. To monitor the output voltage and current, analogue outputs for 0V...10V or 0V...5V are provided as well. Several digital inputs and outputs can be used to control and monitor the status.

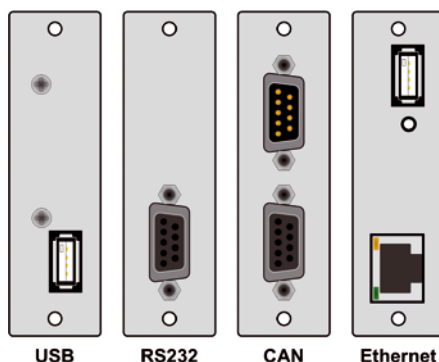
Parallel connection

The 5000W models feature an additional Sharebus connector, which makes it easy to connect up to 10 units in parallel operation and in order to gain symmetric current distribution.

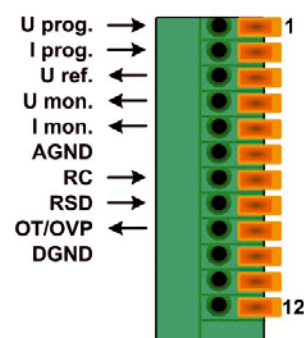
Options

- 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 which provides control and monitoring, data logging and sequences. See pages 63 and 64.
- Water cooling (5kW models only)

数字接口 / Digital interfaces



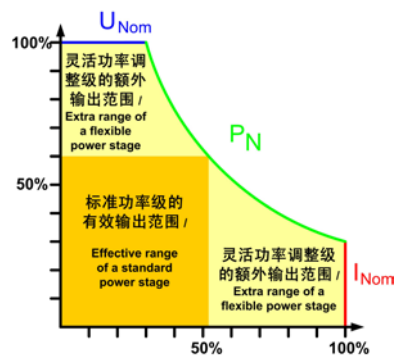
模拟接口 / Analogue interface



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



1000/1500W 型号的功率范围 /
Power range of 1000/1500W models



彩显显示器 / Graphical display

EA-PSI 800 R 5kW



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
输入电压	Input voltage	90...264V	90...264V	90...264V	90...264V	90...264V
-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% 时的稳定度	-Stability at 0-100% load	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-在±10% ΔU _{IN} 时的稳定度	-Stability at ±10% ΔU _{IN}	<0.02%	<0.02%	<0.02%	<0.02%	<0.02%
-纹波	-Ripple HF	<40mV _{PP} <4mV _{RMS}	<100mV _{PP} <10mV _{RMS}	<150mV _{PP} <20mV _{RMS}	<100mV _{PP} <8mV _{RMS}	<150mV _{PP} <10mV _{RMS}
-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	max. 2V	max. 2V	max. 2V	max. 2V	max. 2V
-10-90% 的转换速率	-Slew rate 10-90%	max. 30ms	max. 30ms	max. 30ms	max. 30ms	max. 30ms
输出电流	Output current	0...20A	0...10A	0...5A	0...20A	0...10A
-0-100%ΔU _{OUT} 时的稳定度	-Stability at 0-100% ΔU _{OUT}	<0.15%	<0.15%	<0.15%	<0.15%	<0.15%
-±10% ΔU _{IN} 时的稳定度	-Stability at ±10% ΔU _{IN}	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-纹波	-Ripple	<60mA _{PP} <10mA _{RMS}	<35mA _{PP} <7mA _{RMS}	<12mA _{PP} <3mA _{RMS}	<65mA _{PP} <10mA _{RMS}	<25mA _{PP} <3mA _{RMS}
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	Analogue programming			0...10V 或 0...5V, 可选 / 0...10V or 0...5V, selectable		
制冷方式	Cooling			底盖进风, 上盖排风 / Bottom air inlet and top exhaust		
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 No.	21540401	215401402	21540403	21540404	21540405

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
输入电压	Input voltage	90...264V	90...264V	90...264V	90...264V	90...264V
-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% 时的稳定度	-Stability at 0-100% load	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-在 $\pm 10\% \Delta U_{IN}$ 时的稳定度	-Stability at $\pm 10\% \Delta U_{IN}$	<0.02%	<0.02%	<0.02%	<0.02%	<0.02%
-纹波	-Ripple	<120mV _{PP} <20mV _{RMS}	<10mV _{PP} <5mV _{RMS}	<30mV _{PP} <12mV _{RMS}	<10mV _{PP} <5mV _{RMS}	<30mV _{PP} <12mV _{RMS}
-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	max. 2V	max. 2V	max. 8V	max. 2V	max. 8V
-10-90% 的转换速率	-Slew rate 10-90%	max. 30ms	max. 30ms	max. 30ms	max. 30ms	max. 30ms
输出电流	Output current	0...4A	0...40A	0...10A	0...60A	0...15A
-0-100% ΔU_{OUT} 时的稳定度	-Stability at 0-100% ΔU_{OUT}	<0.15%	<0.15%	<0.15%	<0.15%	<0.15%
- $\pm 10\% \Delta U_{IN}$ 时的稳定度	-Stability at $\pm 10\% \Delta U_{IN}$	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-纹波	-Ripple	<3mA _{PP} <1mA _{RMS}	<19mA _{PP} <7mA _{RMS}	<1,2mA _{PP} <0,45mA _{RMS}	<19mA _{PP} <7mA _{RMS}	<1,2mA _{PP} <0,45mA _{RMS}
输出功率	Output power	640W	1000W	1000W	1500W	1500W
效率	Efficiency	92%	93%	93%	93%	93%
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	Analogue programming	0...10V 或 0...5V, 可选 / 0...10V or 0...5V, selectable				
制冷方式	Cooling	底盖进风, 上盖排风 / Bottom air inlet and top exhaust				
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	6.4kg	6.4kg
产品编号	Article No.	21540406	215401407	21540409	21540408	21540410

技术参数	Technical Data	EA-PSI 880-170 R	EA-PSI 8200-70 R	EA-PSI 8500-30 R
输入电压	Input voltage	340...460V	340...460V	340...460V
-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% 时的稳定度	-Stability at 0-100% load	<0.05%	<0.05%	<0.05%
-在 $\pm 10\% \Delta U_{IN}$ 时的稳定度	-Stability at $\pm 10\% \Delta U_{IN}$	<0.02%	<0.02%	<0.02%
-纹波	-Ripple HF	<150mV _{PP} / <10mV _{RMS}	<200mV _{PP} / <25mV _{RMS}	<250mV _{PP} / <70mV _{RMS}
-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_{OUT} 时的稳定度	-Stability at 0-100% ΔU_{OUT}	<0.15%	<0.15%	<0.15%
- $\pm 10\% \Delta U_{IN}$ 时的稳定度	-Stability at $\pm 10\% \Delta U_{IN}$	<0.05%	<0.05%	<0.05%
-纹波	-Ripple	<300mA _{PP} / <40mA _{RMS}	<44mA _{PP} / <11mA _{RMS}	<14mA _{PP} / <8mA _{RMS}
输出功率	Output power	5000W	5000W	5000W
效率	Efficiency	93%	95.2%	95.5%
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	Analogue programming	0...10V 或 0...5V, 可选 / 0...10V or 0...5V, selectable		
制冷方式	Cooling	底盖进风, 上盖排风 / Bottom air inlet and top exhaust		
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 No.	21540411	21540413	21540412