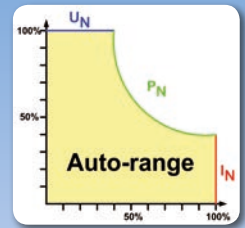




1 kW/1.5 kW结构



320 W/640 W结构

- 宽范围输入电压90...264 V (1.5 kW以下型号)
- 两相输入电压340...460 V (5 kW型号)
- 效率高达 93.5%
- 输出功率: 320 W 至 5000 W
- 输出电压: 0...16 V 至 0...500 V
- 输出电流: 4 A 至 170 A
- 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...10 V模拟接口
- 自然风冷却*
- 温控风扇制冷**

- **Wide range input 90...264 V (up to 1.5 kW models)**
- **Two-phase input 340...460 V (5 kW models)**
- **High efficiency up to 93.5%**
- **Output power ratings: 320 W up to 5000 W**
- **Output voltages: 0...16 V up to 0...500 V**
- **Output currents: 4 A up to 170 A**
- **Auto-ranging output stage ****
- **Overvoltage protection (OVP)**
- **Overtemperature protection (OT)**
- **Status indication via LEDs**
- **Remote sense with automatic detection**
- **Analog interface for 0...10 V**
- **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，1.5 kW以下型号适合90 V至264 V AC的输入电压，而5 kW型号则需在340 V...460 V 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...16 V和0...500 V输出电压，0...4 A和0...170 A输出电流，320 W、640 W、1000 W、1500 W和5 kW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。

* 650 W以下型号
** 1 kW以上型号

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 1.5 kW are suitable for worldwide operation on mains supply of 90...264 V, 5 kW models or require a three-phase connection with two phases and 340...460 V AC.

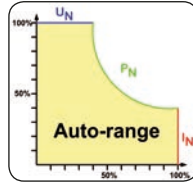
DC output

Different units with DC output voltages from 0...16 V to 0...500 V, currents from 4 A to 170 A and power ratings of 320 W, 640 W, 1000 W, 1500 W and 5 kW 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.

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

功率

1 kW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。这些型号的设置功率都可调。因此仅用一台产品就可涵盖广范围的应用。



Power

Models with 1 kW 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

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 sensing

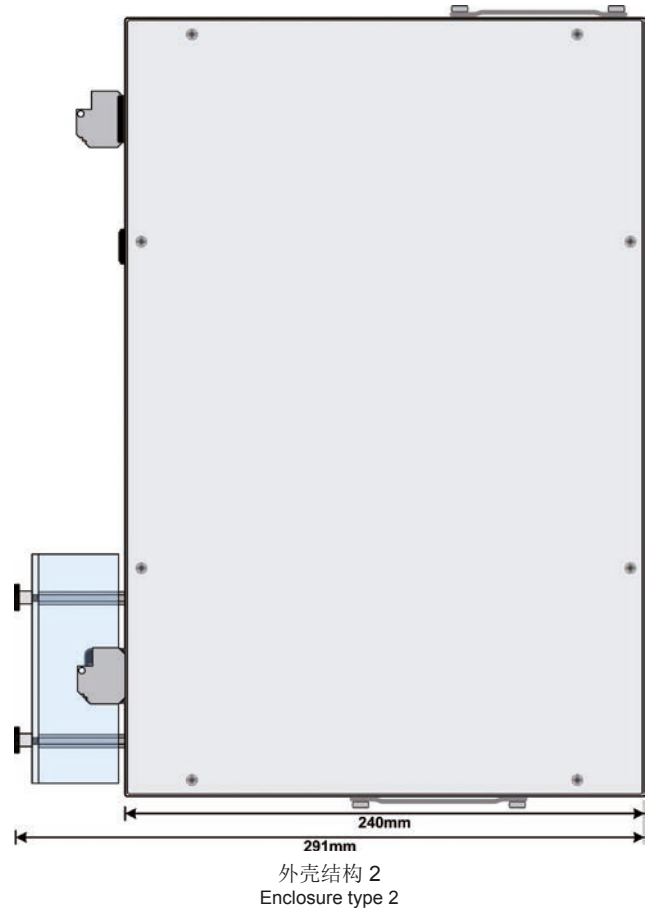
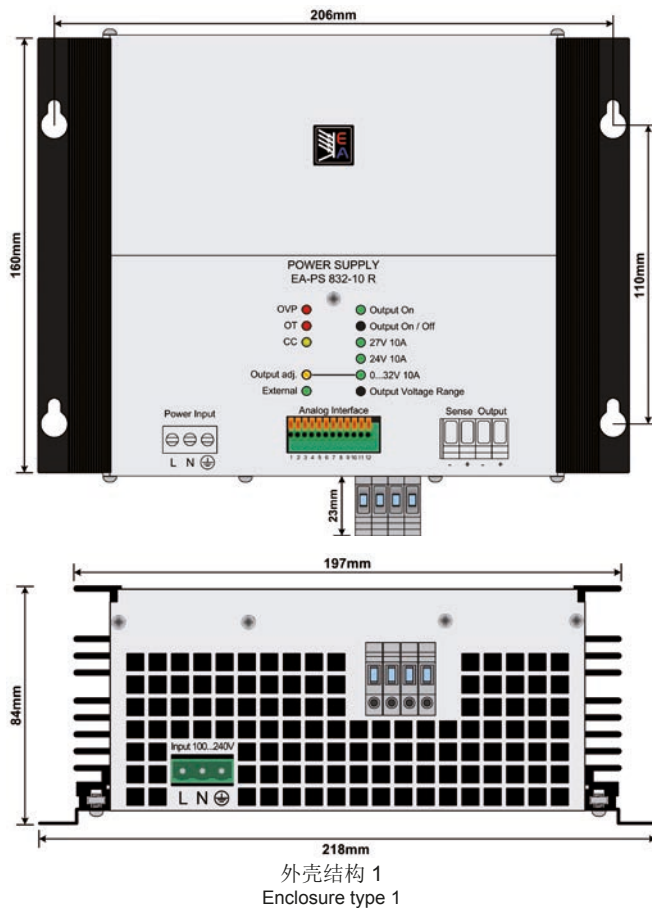
The sense input can be connected directly to the load to compensate voltage drops along the power cables. If the sense input is connected to the load, the power supply will correct the output voltage automatically in order to ensure that the accurate required voltage is available on the load.

模拟接口

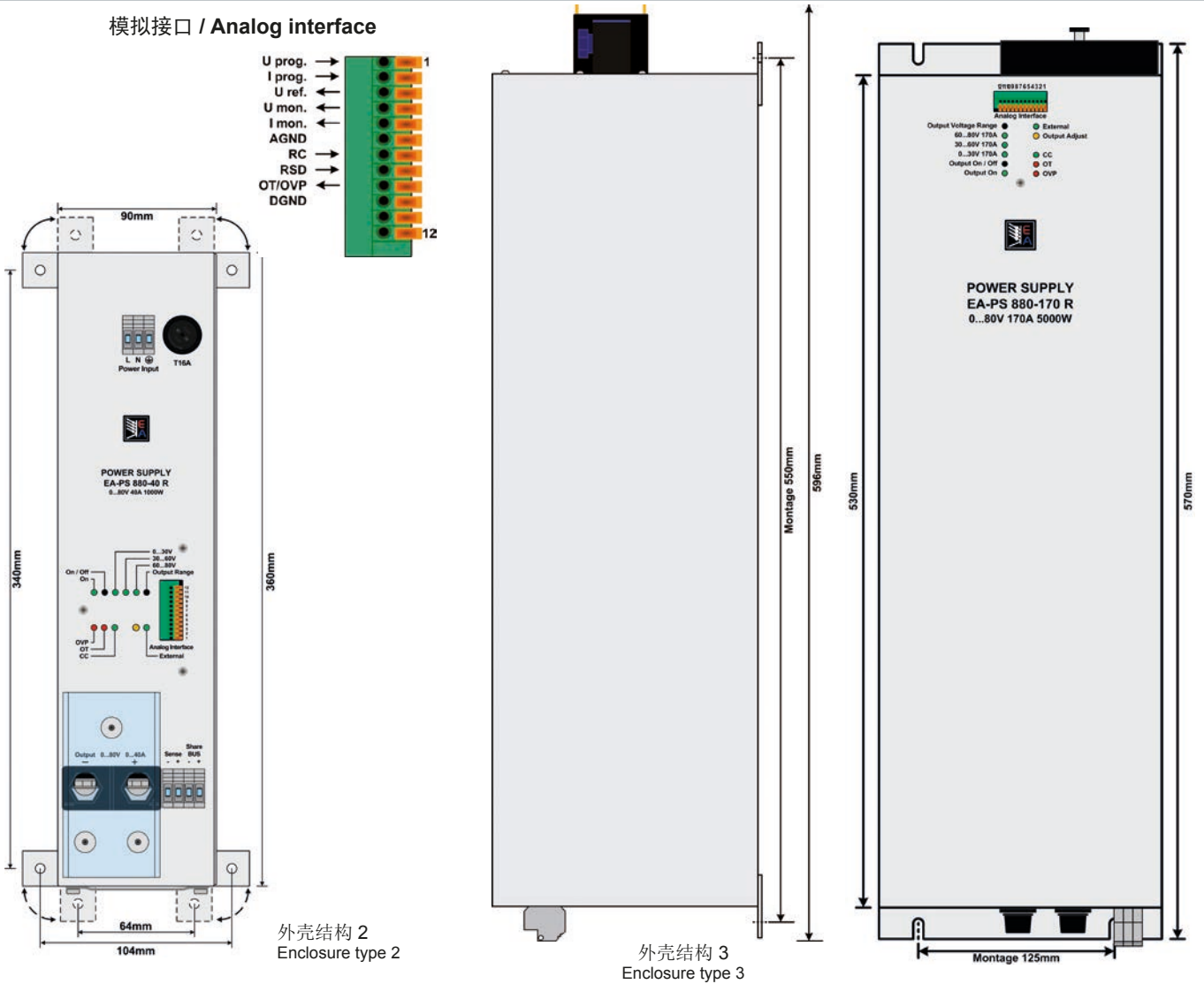
模拟接口输入引脚接上0V...10V或0V...5V电压，可设置0...100%的输出电压与电流。模拟接口输出脚接上0V...10V或0V...5V电压，则可监控输出电压与电流。此外，还有几个输入脚和输出脚，用来控制和监控产品状态。

Analog interface

Analog inputs for voltages from 0...10 V 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...10 V. Several digital inputs and outputs are available for controlling and monitoring the status.



模拟接口 / Analog interface



外壳结构 2
Enclosure type 2

外壳结构 3
Enclosure type 3

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...264 V, 1ph+N	90...264 V, 1ph+N	90...264 V, 1ph+N	90...264 V, 1ph+N	90...264 V, 1ph+N
-频率	- Frequency	45...65 Hz	45...65 Hz	45...65 Hz	45...65 Hz	45...65 Hz
-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...16 V	0...32 V	0...65 V	0...32 V	0...65 V
- 0-100% 的负载调整率	- Load regulation 0-100%	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
- ±10% ΔU _{AC} 的线性调整率	- Line regulation ±10% ΔU _{AC}	<0.02%	<0.02%	<0.02%	<0.02%	<0.02%
-纹波 ⁽¹⁾	- Ripple ⁽¹⁾	<40 mV _{PP} <4 mV _{RMS}	<100 mV _{PP} <10 mV _{RMS}	<150 mV _{PP} <20 mV _{RMS}	<100 mV _{PP} <8 mV _{RMS}	<150 mV _{PP} <10 mV _{RMS}
-负载从10%-100%调整需时	- Regulation 10-100% load	<2 ms	<2 ms	<2 ms	<2 ms	<2 ms
-感测端调整电压	- Sensing regulation	最大2 V	最大2 V	最大2 V	最大2 V	最大2 V
-10-90% 的转换速率	- Slew rate 10-90%	最长30 ms	最长30 ms	最长30 ms	最长30 ms	最长30 ms
输出电流	Output current	0...20 A	0...10 A	0...5 A	0...20 A	0...10 A
-0-100% ΔU _{DC} 的负载调整率	- Load regulation 0-100% ΔU _{DC}	<0.15%	<0.15%	<0.15%	<0.15%	<0.15%
-±10% ΔU _{AC} 时的线性调整率	- Line regulation ±10% ΔU _{AC}	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-纹波 ⁽¹⁾	- Ripple ⁽¹⁾	<60 mA _{PP} <10 mA _{RMS}	<35 mA _{PP} <7 mA _{RMS}	<12 mA _{PP} <3 mA _{RMS}	<65 mA _{PP} <10 mA _{RMS}	<25 mA _{PP} <3 mA _{RMS}
输出功率	Output power	320 W	320 W	325 W	640 W	650 W
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...10 V				
制冷方式	Cooling	自然冷却, 通风槽在产品顶部与底部 / Convectonal, ventilation slots at top & bottom				
工作温度	Operation temperature	0...50°C				
尺寸(宽x高x长)	Dimensions (WxHxD)	218x163x83 mm	218x163x83 mm	218x163x83 mm	218x163x83 mm	218x163x83 mm
安装尺寸(宽x高x长)	Installation dim. (WxHxD)	218x190x85 mm	218x190x85 mm	218x190x85 mm	218x190x85 mm	218x190x85 mm
重量	Weight	2.2 kg	2.2 kg	2.2 kg	2.2 kg	2.2 kg
订购编号	Ordering number	21540101	21540102	21540103	21540104	21540105

(1) RMS值: 在BWL 300kHz时测量的LF值, PP值: 在BWL 20MHz时测量的HF值 / RMS value: measures at LF with BWL 300 kHz, PP value: measured at HF with BWL 20MHz

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...264 V, 1ph+N	90...264 V, 1ph+N	90...264 V, 1ph+N	90...264 V, 1ph+N	90...264 V, 1ph+N
-频率	- Frequency	45...65 Hz	45...65 Hz	45...65 Hz	45...65 Hz	45...65 Hz
-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...160 V	0...80 V	0...360 V	0...80 V	0...360 V
-0-100% 的负载调整率	- Load regulation 0-100%	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
- ±10% ΔU _N 的线性调整率	- Line regulation ±10% ΔU _{AC}	<0.02%	<0.02%	<0.02%	<0.02%	<0.02%
-纹波 ⁽¹⁾	- Ripple ⁽¹⁾	<120 mV _{PP} <20 mV _{RMS}	<10 mV _{PP} <5 mV _{RMS}	<30 mV _{PP} <12 mV _{RMS}	<10 mV _{PP} <5 mV _{RMS}	<30 mV _{PP} <12 mV _{RMS}
-负载从10%-100%调整需时	- Regulation 10-100% load	<2 ms	<2 ms	<2 ms	<2 ms	<2 ms
-感测端调整电压	- Sensing regulation	最大 2 V	最大 2 V	最大 8 V	最大 2 V	最大 8 V
-10-90% 的转换速率	- Slew rate 10-90%	最长30 ms	最长30 ms	最长30 ms	最长30 ms	最长30 ms
输出电流	Output current	0...4 A	0...40 A	0...10 A	0...60 A	0...15 A
-0-100%ΔU _{OUT} 的负载调整率	- Load regulation 0-100% ΔU _{DC}	<0.15%	<0.15%	<0.15%	<0.15%	<0.15%
-±10% ΔU _N 时的线性调整率	- Line regulation ±10% ΔU _{AC}	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-纹波 ⁽¹⁾	- Ripple ⁽¹⁾	<3 mA _{PP} <1 mA _{RMS}	<19 mA _{PP} <7 mA _{RMS}	<1.2 mA _{PP} <0.45 mA _{RMS}	<19 mA _{PP} <7 mA _{RMS}	<1.2 mA _{PP} <0.45 mA _{RMS}
输出功率	Output power	640 W	1000 W	1000 W	1500 W	1500 W
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	Analog programming	0...10 V				
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 (宽x高x长)	Dimensions (WxHxD)	218x163x83 mm	90x360x240 mm	90x360x240 mm	90x360x240 mm	90x360x240 mm
安装尺寸 (宽x高x长)	Installation dim. (WxHxD)	218x190x85 mm	90x370x295 mm	90x370x295 mm	90x370x295 mm	90x370x295 mm
重量	Weight	2.2 kg	6.4 kg	6.4 kg	6.6 kg	6.6 kg
订购编号	Ordering 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...460 V, 2ph	340...460 V, 2ph	340...460 V, 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...80 V	0...200 V	0...500 V
-0-100% 的负载调整率	- Load regulation 0-100%	<0.05%	<0.05%	<0.05%
- ±10% ΔU _{AC} 的线性调整率	- Line regulation ±10% ΔU _{AC}	<0.02%	<0.02%	<0.02%
-纹波 ⁽¹⁾	- Ripple ⁽¹⁾	<150 mV _{PP} / <10 mV _{RMS}	<200 mV _{PP} / <25 mV _{RMS}	<250 mV _{PP} / <70 mV _{RMS}
-负载从10%-100%调整需时	- Regulation 10-100% load	<1 ms	<2 ms	<2 ms
-感测端调整电压	- Sensing regulation	max. 2.5 V	max. 6 V	max. 10 V
-10-90% 的转换速率	- Slew rate 10-90%	17 ms	17 ms	17 ms
输出电流	Output current	0...170 A	0...70 A	0...30 A
-0-100% ΔU _{DC} 的负载调整率	- Load regulation 0-100% ΔU _{DC}	<0.15%	<0.15%	<0.15%
-±10% ΔU _{AC} 时的线性调整率	- Line regulation ±10% ΔU _{AC}	<0.05%	<0.05%	<0.05%
-纹波 ⁽¹⁾	- Ripple ⁽¹⁾	<300 mA _{PP} / <40 mA _{RMS}	<44 mA _{PP} / <11 mA _{RMS}	<14 mA _{PP} / <8 mA _{RMS}
输出功率	Output power	5000 W	5000 W	5000 W
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	Analog programming	0...10 V		
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 (宽x高x长)	Dimensions (WxHxD)	180x530x171 mm	180x530x171 mm	180x530x171 mm
安装尺寸 (宽x高x长)	Installation dim. (WxHxD)	180x595x175 mm	180x595x175 mm	180x595x175 mm
重量	Weight	12 kg	12 kg	12 kg
订购编号	Ordering number	21540122	21540124	21540123

(1 RMS值: 在BWL 300KHz时测量的LF值, PP值: 在BWL 20MHz时测量的HF值 / RMS value: measures at LF with BWL 300 kHz, PP value: measured at HF with BWL 20MHz