



EA-PS 3000 B 160 W - 650 W

实验室直流电源 / LABORATORY DC POWER SUPPLIES



EA-PS 3032-10 B

- 输入电压可选 115 V / 230 V (160 W/320 W)
- 宽范围输入电压90...264 V带PFC (650 W)
- 输出功率: 160 W 至 650 W
- 输出电压: 0...16 V 至 0...150 V
- 输出电流: 0...2.5 A 至 0...40 A
- 电压和电流可粗调和精调
- 有过压保护 (OVP)
- 有过温保护 (OT)
- 三位数显示器读显电压和电流
- LED指示状态
- 远程感测功能
- 模拟接口
 - 通过 0...10 V电压可对U / I 编程
 - 通过 0...10 V电压可监控U / I
- 温控风扇制冷
- 可选USB适配器EA-UTA12 (外置)

概要

EA-PS 3000 B系列电源具备多种多样的功能, 包括: 可预设电流和OVP的LED显示器, 外接模拟接口, 还有状态指示灯。

160 W和320 W产品基于线性技术, 而650 W基于开关性技术和功率因数校正线路。

上下盖无任何通风槽, 也无外部散热器。这种安全与保护方式使产品成为学校和大学, 以及测试和研发实验室与工业领域的理想选择。

交流输入

640/650 W型号采用主动式功率因数校正线路, 输入电压为90 V至264 V AC。160 W或320 W可在115 V和230 V AC间转换, 使之能在全世界范围内使用。

DC输出

本系列有多款不同型号, 可选择0...16 V和0...150 V输出电压, 0...4 A和0...40 A输出电流, 160 W和650 W输出功率的型号。输出端位于产品前面板。

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。一般只有使用了大功率电源线时才会出现压降。

- Mains supply: 115 V / 230 V (160 W/320 W models)
- Wide input voltage range: 90...264 V (650 W models)
- Output power ratings: 160 W up to 650 W
- Output voltages: 0...16 V up to 0...150 V
- Output currents: 0...2.5 A up to 0...40 A
- Voltage and current adjustable coarse and fine
- Overvoltage protection (OVP)
- Overtemperature protection (OT)
- Three-digit displays for voltage and current
- Status indication via LEDs
- Remote sensing
- Analog interface with
 - U / I programmable via 0...10 V
 - U / I monitoring via 0...10 V
- Temperature controlled fan for cooling
- Optional USB adapter EA-UTA12 (external)

General

The power supply series EA-PS 3000 B offers versatile functionality: LED displays with preset functions for current and OVP, an extensive analog interface and status indicators via LEDs.

Along with the linear technology power classes of 160 W and 320 W, there is a 650 W power class with switching technology and PFC.

There are no ventilation slots in either the top or base of the units, also no external heat sinks. This attention to safety and protection makes it ideal for schools and universities as well as test and development laboratories and industry.

AC input

The 640/650 W models feature an active Power Factor Correction and a mains input range of 90 V up to 264 V AC. Models with 160 W or 320 W are switchable between 115 V and 230 V AC supply. This enables the series for worldwide use.

DC output

A selection of DC output voltages between 0...16 V and 0...150 V, output currents between 0...4 A and 0...40 A and output power ratings between 160 W and 650 W is available. The output terminal is located in the front panel.

Remote sensing

The sensing input can be connected directly to the load to compensate for voltage drops up to a certain level, which usually occur along high power cables.



过压保护(OVP)

为了保护连接负载，可调节一过压保护极限值(OVP)。

若输出电压超过调节极限值，输出被切断，LED灯和模拟接口端口发出状态信号。

显示器和控制件

输出电压和电流清晰显示于两个3位数显示器上。通过LED灯指示产品和按钮的功能状态，使用户操作起来更简便。

用电位器可调节输出电压、电流和OVP(过压保护)值。

输出值的预设

要设置输出值，但不影响输出状态，可采用预设功能。

通过此功能用户可预设输出电压、电流和过压保护值(OVP)。

模拟接口

模拟接口连接点位于产品前板。此处有模拟接口输入脚，接上0 V...10 V电压，可设置0...100%的输出电压、电流。此外，还有数个输入脚和输出脚，用来控制和监控产品状态。

选配件

- USB适配器EA-UTA12 (见141页)

Overvoltage protection (OVP)

Intended to protect connected loads, it is possible to adjust an overvoltage protection threshold (OVP).

If the output voltage exceeds the defined limit, the output is shut off and a status message signal by LED and via the analog interface will be generated.

Display and controls

Output voltage and output current are clearly represented on two three-digit displays. The operation states of the equipment and the pushbuttons will be indicated by LEDs, that makes the operation essentially simpler for the user.

The adjustment for voltage, current and OVP is done with potentiometers.

Presetting of output values

To set output values without a direct effect to the output condition, a preset function is implemented.

With this function the user can preset values for the output voltage, output current and overvoltage protection (OVP).

Analog Interface

The connection for the analog interface is located on the front of the device. Analog inputs and outputs are available here, for a voltage range of 0 V...10 V to set and monitor voltage and current from 0...100%. Furthermore, several inputs and outputs are available for controlling and monitoring the equipment status.

Options

- USB adapter EA-UTA12 (see page 141)

技术参数	Technical Data	EA-PS 3016-10B	EA-PS 3032-05B	EA-PS 3065-03B	EA-PS 3016-20B	EA-PS 3032-10B
输入电压	Input voltage AC	115/230 V	115/230 V	115/230 V	115/230 V	115/230 V
-频率	- Frequency	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz	50/60 Hz
输出电压 (DC)	Output voltage DC	0...16 V	0...32 V	0...65 V	0...16 V	0...32 V
-0-100% 的负载调整率	- Load regulation 0-100%	<10 mV	<10 mV	<10 mV	<10 mV	<8 mV
-在±10% ΔU _{AC} 的线性调整率	- Line regulation ±10% ΔU _{AC}	<1 mV _{RMS}	<1 mV _{RMS}	<1 mV _{RMS}	<5 mV _{RMS}	<5 mV _{RMS}
-纹波	- Ripple LF	<2 mV _{RMS}	<2 mV _{RMS}	<2 mV _{RMS}	<2 mV _{RMS}	<2 mV _{RMS}
-负载从10%-100%调整需时	- Regulation 10-100% load	<1 ms	<1 ms	<1 ms	<1 ms	<1 ms
-OVP过压保护调节范围	- OVP adjustment	0...17.6 V	0...35.2 V	0...71.5 V	0...17.6 V	0...35.2 V
输出电流	Output current	0...10 A	0...5 A	0...2.5 A	0...20 A	0...10 A
-0-100% ΔU _{DC} 的负载调整率	- Load regulation 0-100% ΔU _{DC}	<4 mA	<4 mA	<4 mA	<4 mA	<4 mA
输出功率	Output power	160 W	160 W	160 W	320 W	320 W
安规标准	Safety	EN60950	EN60950	EN60950	EN60950	EN60950
尺寸(宽x高x长) *	Dimensions (WxHxD) *	240x120x285 mm	240x120x285 mm	240x120x285 mm	240x120x285 mm	240x120x285 mm
重量	Weight	6.5 kg	6.5 kg	6.5 kg	10 kg	10 kg
订购编号	Ordering number	35320170	35320171	35320172	35320173	35320174

技术参数	Technical Data	EA-PS 3065-05B	EA-PS 3016-40B	EA-PS 3032-20B	EA-PS 3065-10B	EA-PS 3150-04B
输入电压	Input voltage AC	115/230 V	90...264 V	90...264 V	90...264 V	90...264 V
-频率	- Frequency	50/60 Hz	45...65 Hz	45...65 Hz	45...65 Hz	45...65 Hz
输出电压 (DC)	Output voltage DC	0...65 V	0...16 V	0...32 V	0...65 V	0...150 V
-0-100% 的负载调整率	- Load regulation 0-100%	<10 mV	<10 mV	<20 mV	<30 mV	<40 mV
-在±10% ΔU _{AC} 的线性调整率	- Line regulation ±10% ΔU _{AC}	<5 mV _{RMS}	<2 mV _{RMS}	<2 mV _{RMS}	<2 mV _{RMS}	<30 mV _{RMS}
-纹波	- Ripple LF	<2 mV _{RMS}	<10 mV _{RMS}	<10 mV _{RMS}	<10 mV _{RMS}	<5 mV _{RMS}
-负载从10%-100%调整需时	- Regulation 10-100% load	<1 ms	<3 ms	<3 ms	<3 ms	<3 ms
-OVP过压保护调节范围	- OVP adjustment	0...71.5 V	0...17.6 V	0...35.2 V	0...71.5 V	0...165 V
输出电流	Output current	0...5 A	0...40 A	0...20 A	0...10 A	0...4 A
-0-100% ΔU _{DC} 的负载调整率	- Load regulation 0-100% ΔU _{DC}	<4 mA	<50 mA	<50 mA	<50 mA	<10 mA
输出功率	Output power	325 W	640 W	640 W	650 W	640 W
安规标准	Safety	EN60950	EN60950	EN60950	EN60950	EN60950
尺寸(宽x高x长)*	Dimensions (WxHxD) *	240x120x285 mm	240x120x285 mm	240x120x285 mm	240x120x285 mm	240x120x285 mm
重量	Weight	10 kg	5.5 kg	5.5 kg	5.5 kg	5.5 kg
订购编号	Ordering number	35320175	35320176	35320177	35320178	35320179

*产品外壳尺寸，非整体安装尺寸 / Enclosure dimensions, not total installation dimensions

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