



EA-PS 824-10 SM

- ▶ 宽范围输入电压90...264 V，带主动式PFC
- ▶ 效率：高达 93%
- ▶ 输出功率：120 W 至 480 W
- ▶ 输出电压：12 V, 24 V 和 48 V
- ▶ 输出电流：10 A 至 20 A
- ▶ 可持续8秒过载50%
- ▶ 导轨式安装
- ▶ 有过压保护(OVP)
- ▶ 有过温保护(OT)
- ▶ 状态LED指示灯
- ▶ 自由电位信号接点表示"输出OK"
- ▶ 自然风冷式冷却方式
- ▶ 符合EN 60950安规标准
- ▶ 符合EMI EN 61000-6-1, EN 61000-6-3标准

- ▶ **Wide input voltage range 90...264 V with active PFC**
- ▶ **High efficiency up to 93%**
- ▶ **Output powers: 120 W up to 480 W**
- ▶ **Output voltages: 12 V, 24 V and 48 V**
- ▶ **Output currents: 10 A up to 20 A**
- ▶ **50% overload for 8 seconds**
- ▶ **DIN rail mounting**
- ▶ **Overvoltage protection (OVP)**
- ▶ **Overtemperature protection (OT)**
- ▶ **Status indication via LEDs**
- ▶ **Potential-free signal contact for output OK**
- ▶ **Natural convection for cooling**
- ▶ **Safety EN 60950**
- ▶ **EMI EN 61000-6-1, EN 61000-6-3**

概要

EA-PS 800 SM 这一代DIN导轨安装式电源系列，已经发展成重型工业领域应用之产品。其效率高达93%，体积小巧，全因使用了创新的开关技术。本产品的功率因数(PFC) >99%。

本产品在8秒钟内可输出超过额定功率50%的峰值功率。

电源断电时能持续供电时间 >20 ms。

调节前板电位器可调节输出电压。

所有型号都有一干式继电器接点（直流电源失效），可用来监控输出电压，还有两个状态LED灯指示输出和错误。

本产品还有过载和短路保护功能，以及浪涌电流限制。过压和过温保护电路还可保护连接负载以及电源。

以自然对流作为冷却方式，工作温度为0...70°C，60°C以上每升高一度降额2%的功率。（480 W型号则从50°C开始）

安装于DIN导轨上时，仅需弹簧夹即可，不需其它工具协助。

输入

本产品采用主动式PFC校正线路，从而产品能应用于世界范围内，输入电压为90 V至264 V AC，还可当150 V DC至370 V DC的隔离DC/DC转换器用。

General

This generation of DIN-Rail mounting power supplies series EA-PS 800 SM has been developed for heavy-duty industrial applications. An outstanding efficiency up to 93%, smallest dimensions are a result of the use of an innovative switching technology. The units have a power factor correction (PFC) of >99%.

They are able to supply an additional peak power of 50 % of the nominal rating for up to 8 seconds.

The hold-up time upon mains power failure is >20 ms.

The output voltage can be adjusted via trimmer on the front panel.

All models have a dry relay contact (DC power fail) to monitor the output voltage and they have two status LED's for output and error.

The units are provided with overload and short-circuit protection as well as inrush current limiting. An overvoltage and an overtemperature feature protect the connected load and also the power supply.

Cooling is arranged via natural convection, operating temperature is 0...70°C with a 2%/°C derating above 60°C (50°C at the 480 W models).

Mounting on a DIN-rail uses spring clips, eliminating the need for tools.

Input

The equipment uses an active Power Factor Correction to enable using it worldwide on a mains input from 90 V up to 264 V AC and for a usage as isolated DC/DC converters for 150 V DC up to 370 V DC as well.

输出

本系列有多款不同型号，可选择12 V、24 V和48 V输出电压，10 A至20 A输出电流，120 W至480 W输出功率的类型。输出电压可调。输出端为螺丝端。

保护功能

为保护连接负载，可将过压保护限值(OVP)设定为输出电压的110%。超过该值，则关断输出。

为保护产品和连接设备，本产品内部配有过温(OT)保护功能。一旦达到关键温度，如：在高温环境下或在有限空气环流条件下工作，输出被关断，当温度下降后又自动重启。

选项

- 配上合适的电池组可当多功能直流UPS用。

DC output

Different units with DC voltage output ranges from 12 V, 24 V and 48 V, current output ranges from 10 A to 20 A and power output ranges from 120 W to 480 W, are available. The output voltage is adjustable and is provided at screw terminals.

Protective features

To protect connected equipment an overvoltage protection (OVP) of 110% of the currently adjusted output voltage is set. Exceeding this value shuts the output off.

To protect the unit from overheating, the units come with a built-in overtemperature protection (OT). On reaching critical temperature, e.g. high ambient temperature or operating with limited air circulation, the output is shut off and is automatically restarted when the temperature has reduced.

Options

- This series can also be supplied as DC-USV units with many functions, together with suitable battery units.

技术参数	Technical Data	PS 812-10 SM	PS 812-16 SM	PS 824-10 SM	PS 824-20 SM	PS 848-10 SM
AC输入电压	Input voltage AC	90...264 V	90...264 V	90...264 V	90...264 V	90...264 V
-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
DC输入电压	Input voltage DC	150...360 V	150...360 V	150...360 V	150...360 V	150...360 V
DC输出电压	Output voltage DC	12...15 V	12...15 V	24...28 V	24...28 V	48...56 V
- 0-100% 时的负载调整率	- Load regulation 0-100%	<1%	<1%	<1%	<1%	<1%
- ±10% ΔU _{AC} 的线性调整率	- Line regulation ±10% ΔU _{AC}	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-纹波LF	- Ripple LF	<50 mV _{pp}	<50 mV _{pp}	<50 mV _{pp}	<120 mV _{pp}	<180 mV _{pp}
-调整需时	- Regulation	<2 ms	<2 ms	<2 ms	<2 ms	<2 ms
-过压保护	- Overvoltage protection	16 V ±1 V	16 V ±1 V	30 V ±1 V	30 V ±1 V	58 V ±1 V
输出电流	Output current	10.0 A	16.0 A	10.0 A	20.0 A	10.0 A
输出功率	Output power	120 W	240 W	240 W	480 W	480 W
尺寸(宽x高x长)	Dimensions (WxHxD)	48x126x112 mm	60x126x112 mm	60x126x112 mm	78x126x125 mm	78x126x125 mm
重量	Weight	0.9 kg	1 kg	1 kg	1.3 kg	1.3 kg
订购编号	Ordering number	35320190	35320193	35320194	35320197	35320198