

## EA-UPS 800 SM 120W - 480W, EA-BU 800 SM 导轨式直流UPS电源 / DIN RAIL MOUNT DC UPS



EA-BU 824-04

EA-UPS 824-10 SM

EA-CU 724-20

- 90...264V 宽范围输入电压带主动式 PFC
- 效率：高达 93%
- 输出功率级别：120W 至 480W
- 输出电压：12V, 24V 和 48V
- 输出电流：2.5A 至 20A
- 导轨式安装
- 过压保护 (OVP)
- 过温保护 (OT)
- 过放保护，电池电压低报警
- LED 灯显示状态
- 手动和外部启动电池测试
- 多功能模拟接口
- 自然风冷式冷却方式
- 符合 EN 60950 安规标准
- EMI EN 61000-6-1, EN 61000-6-3

- **Wide input voltage range 90...264V with active PFC**
- **High efficiency: up to 93%**
- **Output powers: 120W up to 480W**
- **Output voltages: 12V, 24V and 48V**
- **Output currents: 2.5A up to 20A**
- **DIN-Rail mounting**
- **Overvoltage protection (OVP)**
- **Overtemperature protection (OT)**
- **Deep discharge protection, battery voltage low alarm**
- **Status indication via LEDs**
- **Battery test start either manual and external**
- **Analogue interface with many functions**
- **Natural convection cooling**
- **Safety EN 60950**
- **EMI EN 61000-6-1, EN 61000-6-3**

### 概述

新一代导轨安装式 DC UPS 电源 EA-UPS 800 SM 系列已发展为应用于重型工业设备的产品。

高达 93% 的效率和体积小特点，全因使用了创新的开关技术。其功率因数校正正值高达 (PFC) >99%。

所有型号都有一干式继电器触点 (DC power fail- 直流电源失效)，可用来监控输出电压，还有数个状态 LED 灯。

如想在正常操作模式期间对电池进行测试，可使用本产品的测试功能。通过产品上的按钮或模拟接口可激活该功能。测试过程中，输出电压降低至电池代替负载供电的水平。

本产品有过载和短路保护功能，以及浪涌电流限制。

以自然风作为冷却方式，工作温度为 0...70°C，60°C 以上则以每升高一度降额 2% 功率。(480W 型号则从 50°C 开始)

安装于导轨上，仅需使用弹簧夹，不用其它工具。

### General

This new generation of DIN rail mount DC UPS, series EA-UPS 800 SM, has been developed for heavy-duty industrial applications.

An outstanding efficiency up to 93% and smallest dimensions are the result of an innovative switching technology. The units have a power factor correction (PFC) with >99% power factor.

All models have a dry relay contact (DC power fail, to monitor the output voltage) and several LEDs for status indication.

In order to test battery function during normal operation, the units are equipped with a test function. This function can be activated by a button on the unit or via the analogue interface. During the test procedure, the output voltage of the unit is reduced to a level where the battery takes over the supply of the load.

The units are provided with overload and short-circuit protection as well as inrush current limiting.

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

Mounting is done on DIN rails with springclips, eliminating the need for tools.

## EA-UPS 800 SM 120W - 480W, EA-BU 800 SM 导轨式直流UPS电源 / DIN RAIL MOUNT DC UPS

### 输入

本产品采用主动式PFC，从而使得其能应用于世界范围内，市电输入电压范围为100V至264V AC，或当输入电压为90V DC至360V DC时当隔离DC/DC转换器用。

### 过压保护 (OVP)

为保护连接负载，可将过压保护极限值(OVP)设定为输出电压的110%。

输出电压超过该值，则关断输出。

### 过温保护 (OT)

为保护连接负载，本产品具有过温保护功能(OT)。一旦达到关键温度，如：在高的环境温度或在有限空气环流条件下工作，输出被关断，此时连接电池供电，当温度下降至一接受值后，产品又自动重启。

### Input

The equipment uses an active Power Factor Correction to enable worldwide use on a mains input from 90V...264V AC or for use as isolated DC/DC converters on 120V...360V DC input as well.

### Overvoltage protection (OVP)

To protect connected equipment, an overvoltage protection (OVP) circuit with a limit of 110% max. output voltage is set. In case the output voltage exceeds the defined limit, the output is switched off.

### Overtemperature protection (OT)

To protect connected equipment, an overtemperature protection (OT) circuit is built in. On reaching a critical temperature, ambient or through poor air circulation, the unit cuts out. In such a case the connected battery provides power until the temperature has reduced to an acceptable value.

技术参数	Technical Data	UPS 812-10 SM	UPS 824-05 SM	UPS 848-03 SM	UPS 812-16 SM	UPS 824-10 SM	UPS 848-05 SM
AC输入电压	AC input voltage	90...264V	90...264V	90...264V	90...264V	90...264V	90...264V
-频率	-Frequency	45...65Hz	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	>0.99
DC输入电压	DC input voltage	120...360V	120...360V	120...360V	120...360V	120...360V	120...360V
输出电压	Output voltage	10.5...13.5V	21...27V	42...54V	10.5...13.5V	21...27V	42...54V
-负载0-100%时的稳定度	-Stability 0-100% load	<1%	<1%	<1%	<1%	<1%	<1%
--±10% Δ U <sub>IN</sub> 时的稳定度	-Stability ±10% Δ U <sub>IN</sub>	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%	<0.05%
-纹波	-Ripple	<50mV <sub>pp</sub>	<50mV <sub>pp</sub>	<50mV <sub>pp</sub>	<50mV <sub>pp</sub>	<50mV <sub>pp</sub>	<50mV <sub>pp</sub>
-调整率	-Regulation	<2ms	<2ms	<2ms	<2ms	<2ms	<2ms
-OVP过压保护值	-OVP	16V ±1V	30V ±1V	58V ±1V	16V ±1V	30V ±1V	58V ±1V
输出电流	Output current	10.0A	5.0A	2.5A	16.0A	10.0A	5.0A
输出功率	Output power	120W	120W	120W	240W	240W	240W
尺寸 (WxHxD)	Dimensions (WxHxD)	100x126x112mm	100x126x112mm	100x126x112mm	100x126x112mm	100x126x112mm	100x126x112mm
重量	Weight	1.2kg	1.2kg	1.2kg	1.3kg	1.3kg	1.3kg
产品编号	Article No.	36940103	36940104	36940105	36940106	36940107	36940108

技术参数	Technical Data	PS 812-27 SM S01 + CU 712-20	PS 824-20 SM S02 + CU 724-20	PS 848-10 SM S01 + CU 748-20
AC输入电压	AC input voltage	90...264V	90...264V	90...264V
-频率	-Frequency	45...65Hz	45...65Hz	45...65Hz
-功率因数	-Power factor	>0.99	>0.99	>0.99
DC输入电压	DC input voltage	120...360V	120...360V	120...360V
输出电压	Output voltage	10.5...13.5V	21...27V	42...54V
--±10% Δ U <sub>IN</sub> 时的稳定度	-Stability ±10% Δ U <sub>IN</sub>	<0.05%	<0.05%	<0.05%
-纹波	-Ripple	<80mV <sub>pp</sub>	<120mV <sub>pp</sub>	<180mV <sub>pp</sub>
-调整率	-Regulation	<2ms	<2ms	<2ms
-OVP过压保护值	-OVP	16V ±1V	30V ±1V	58V ±1V
输出电流	Output current	20.0A	17.0A	9.0A
输出功率	Output power	400W	480W	480W
尺寸 (WxHxD)	Dimensions (WxHxD)	(108+78) x 126 x 125mm	(108+78) x 126 x 125mm	(108+78) x 126 x 125mm
重量	Weight	1.7kg	1.7kg	1.7kg
产品编号	Article No.	35901196 + 10270102	35902197 + 10270100	35901198 + 10270101

## 导轨安装式电池组 / DIN RAIL MOUNT BATTERY UNITS

技术参数	Technical Data	BU 812-08 SM	BU 824-04 SM	BU 848-02 SM	BU 824-07 SM
电池电压	Battery voltage	12V	24V	48V	24V
容量	Capacity	8Ah	4Ah	1.2Ah	6.5Ah
240分钟备份时间	Back up time 240min.	at 2A / 2A时	at 1A / 1A时	at 0.3A / 0.3A时	at 1.6A / 1.6A时
50分钟备份时间	Back up time 50min.	at 5A / 5A时	at 2.5A / 2.5A时	at 0.8A / 0.8A时	at 4.5A / 4.5A时
25分钟备份时间	Back up time 25min.	at 10A / 10A时	at 5A / 5A时	at 1.8A / 1.8A时	at 9.0A / 9.0A时
9分钟备份时间	Back up time 9min.	at 20A / 20A时	at 10A / 10A时	at 3.0A / 3.0A时	at 16A / 16A时
尺寸 WxHxD	Dimensions WxHxD	168x126x112mm	168x126x112mm	210x126x112mm	162x133x115mm
重量	Weight	3.9kg	3.9kg	2.9kg	6.7kg
产品编号	Article no.	36940112	36940113	36940114	36940115