

EA-UPS DSPMP 1000VA - 10000VA

DSP MULTIPOWER UPS系统 / DSP MULTIPOWER UPS SYSTEM



- 在线双转换原理
- **DSP**单片机控制
- 符合**IEC 62040-3**标准, 属**VFI-SS-111**类**UPS**电源
- 双转换器, 带纯正弦输出和**PFC**
- 先进的智能化电池管理
- 外接电池组延长备份时间
- 短路、过载和过放保护
- 错误报警和状态警告
- 冷启动和节能功能
- 软件操作通讯端口
- 结构小巧, 操作方便
- 选项:
 - 额外**1000W**充电装置
 - 外接用电池组
 - 接口: **SNMP, USB, RS485**
 - 状态信号继电器卡
 - 三相市电输入

- **Online double conversion principle**
- **DSP microprocessor controlled**
- **UPS classification VFI-SS-111 according IEC 62040-3**
- **Double converter with pure sine wave output and PFC**
- **Advanced intelligent battery management**
- **Extended backup time by external battery units**
- **Short-circuit, overload and deep discharge protection**
- **Fault alerts and status warnings**
- **Cold start and energy saving features**
- **Communication port with software**
- **Compact size and user friendly operation**
- **Options:**
 - **Additional charging unit 1000W**
 - **Battery unit for external batteries**
 - **Interfaces: SNMP, USB, RS485**
 - **Relay card for status signals**
 - **Three-phase mains input**

概述

EA-DSPMP 1101 - 1110系列给关键设备提供不间断电量, 以弥补市电断电的不足。

它保护连接系统免于市电断电、欠压、过压、频率变化和谐波失真的危险。

可并联多达四台本类型产品, 允许建造冗余系统。

工作原理

本产品按照电压和频率独立类(VFI)的双转换原理工作。

输入电量直接经过给电池供电的转换器。输出专门由逆变器供电, 而此逆变器要么从由市电供电的转换器获得电量, 要么从电池处获得, 如果遇上电源断电的话。由于旁路开关, 与转换器和逆变器并联, 从而增加了供电的安全性。

保护功能

若输出负载超过**150%**或转换器/逆变器发生内部错误, 连接设备将转至旁路, 这样维护了**UPS**电源。回到正常条件后, 自动恢复至转换操作。

本产品有短路保护。

General

The EA-DSPMP 1101 - 1110 series provides an uninterruptible power source for critical equipment to cover failures in the mains supply.

The units can protect connected systems against power failure, undervoltage, overvoltage, frequency variance and harmonic distortion.

Up to four units can be connected in parallel, allowing to build a redundant system.

Functional principle

The units work with the double conversion principle in the voltage and frequency independent category (VFI).

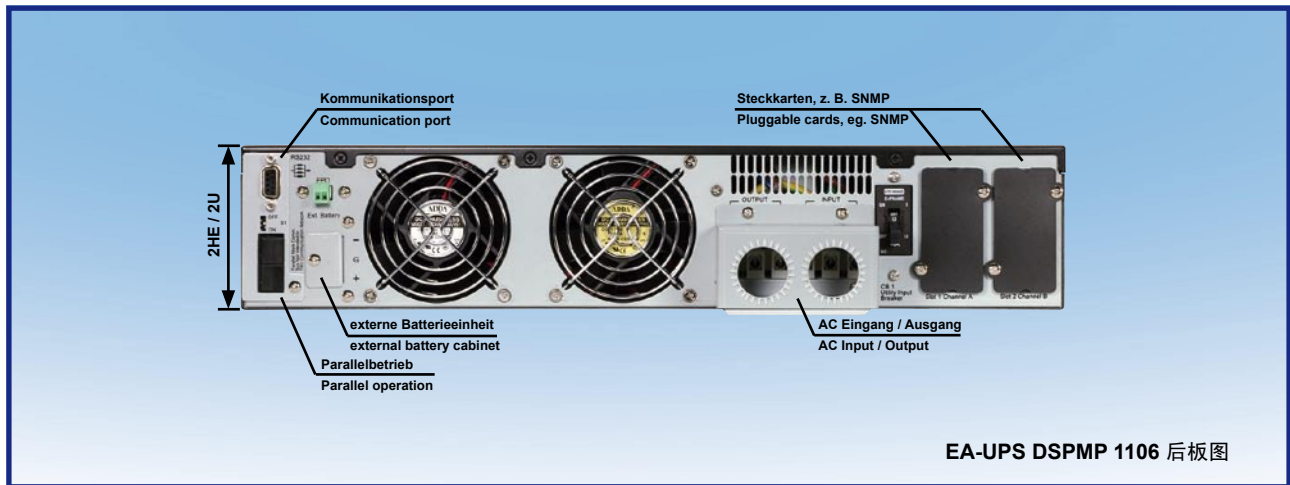
Input power passes directly through a converter which feeds the battery. Output is provided exclusively from an inverter which is supplied either from the converter using mains power, or from the battery in case of mains failure. Security of supply is increased by provision of bypass switching, parallel to the converter and inverter.

Protection functions

If output load exceeds **150%** or an internal error in the converter or inverter occurs the connected equipment is switched over to bypass so that power supply is maintained. When normal conditions return, conversion operation is automatically resumed.

The units are short-circuit-proof.

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接口

配有RS232接口用通讯端口。

还有SNMP、USB 和 RS485 接口供选择，装于产品内。
外壳后板有两个内卡插槽，可插上新的接口卡。

Interface

A communication port for a RS232 interface is provided as standard.

SNMP, USB and RS485 interfaces are optionally available, and can be integrated into the unit. Two slots for these interfaces are available at the rear of the housing such that a retroactive inclusion is possible.

SNMP外部接口

SNMP接口也可当单独模块提供，从外部连接。



External SNMP interface

The SNMP interface is also available as a separate module which would be connected externally.

技术参数	Technical Data	EA-UPS DSPMP 210	EA-UPS DSPMP 220	EA-UPS DSPMP 230
输入电压	Input voltage	160 - 288V AC		
- 频率	- Frequency	50 / 60 Hz $\pm 5\%$, 自动感测 / Auto-sensing		
- 功率因素值(PFC)	- Power factor (PFC)	$>0,99$		
输出电压	Output voltage	220 / 230 / 240V AC $\pm 1\%$ 纯正弦波 / true sine wave, THD $<3\%$		
- 频率	- Frequency	50 / 60 Hz $\pm 0,5\%$ 自动检测Auto detection		
- 视在功率	- Apparent power	1000VA	2000VA	3000VA
- 实际功率	- Real power	700W	1400W	2100W
- 功率因素值	- Power factor	$\cos\phi=0,7$	$\cos\phi=0,7$	$\cos\phi=0,7$
LED显示	Display LED's	市电输入、备份模式、旁路、错误、过载、电池状况 Line input, backup mode, bypass, error, overload, battery level		
LCD显示	Display LCD	输入/输出电压, 输入/输出频率, 电池电压, 负载%, 内部温度 Input/output voltage, input/output frequency, battery voltage, load in %, internal temperature		
电池类型	Battery	密封, 免维护, 铅酸电池 / Sealed, maintenance-free, lead-acid		
- 重充时间	- Recharge time	3 小时 (至 90%的容量) / 3 hours (to 90% capacity)		
- 电压 / 容量	- Voltage / capacity	36V / 7Ah	72V / 7Ah	72V / 9Ah
带载50%的备份时间	Back up time 50% Load	20 min.	20 min.	15 min.
带载100%的备份时间	Back up time 100% Load	7 min.	7 min.	5 min.
各种保护功能	Various protection	过载和短路时保险丝熔断保护 / Fuse for overload and short-circuit 自动关断: 带载100-120% 30秒后关断, 带载120-150% 10秒后关断 Automatic shutdown after 30s at 100-120% load and after 10s at 120-150% load		
通讯接口	Communication	RS 232		
安规标准 / EMI	Safety / EMI	EN 50091-1 / EN 50091-2		
保护级别	Protection class	IP 20		
工作温度	Operation temperature	0 - 40°C		
湿度	Humidity	0 - 95% 无凝露 / non condensing		
噪音	Noise	$<50\text{dBA @ 1m}$	$<50\text{dBA @ 1m}$	$<50\text{dBA @ 1m}$
尺寸 (WxHxD)	Dimensions (WxHxD)	440x88x405 mm	440x88x650 mm	440x88x650 mm
重量	Weight	16,0kg	30,0kg	30,0kg
电源插座	Power outlets	6x IEC 10A	6x IEC 10A	4x IEC 10A, 1x IEC 16A

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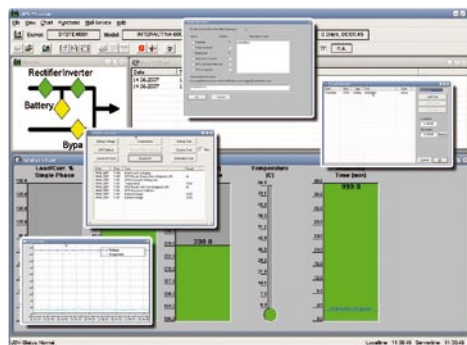


软件

配有监控本产品的Windows系统软件。

还供应UPSMAN综合软件。它为用户提供许多功能，用来监控和记录UPS系统。

可向我公司咨询更多详情或订购原版软件。



UPSMAN 软件

Software

A Windows based software for monitoring unbroken power supply is included.

The comprehensive software UPSMan can be provided. It offers the user numerous possibilities for monitoring and recording UPS systems.

Please ask for detailed information or order a demoverision.

技术参数	Technical Data	EA-UPS DSPMP 1105	EA-UPS DSPMP 1106	EA-UPS DSPMP 1110
输入电压	Input voltage	160 - 280V AC		
- 频率	- Frequency	45-65 Hz		
- 功率因素值(PFC)	- Power factor (PFC)	0,99		
输出电压	Output voltage	220 / 230V AC $\pm 2\%$ 纯正弦波 / true sine wave, THD<3%		
- 频率	- Frequency	50 / 60 Hz $\pm 0,5\%$ 可选 / selectable		
- 视在功率	- Apparent power	5kVA	6kVA	10kVA
- 实际功率	- Real power	3500W	4200W	7000W
- 功率因素值	- Power factor	$\cos\phi=0,7$	$\cos\phi=0,7$	$\cos\phi=0,7$
LED显示	Display LEDs	市电输入、省电模式、备份模式、旁路、错误、过载、电池状况、电池坏 Line input, eco mode, backup mode, bypass, error, overload, battery level, battery bad		
LCD显示	Display LCD	输入/输出电压, 输入/输出频率, 电池电压, 带载%, 内部温度 Input/output voltage, input/output frequency, battery voltage, load in %, internal temperature		
电池类型	Battery	密封, 免维护, 铅酸电池 / Sealed, maintenance-free, lead-acid		
- 重充时间	- Recharge time	4 - 6 小时 (至 90%的容量) / 4 - 6 hours (to 90% capacity)		
- 电压 / 容量	- Voltage / capacity	240V / 7Ah	240V / 7Ah	240V / 7Ah
带载50%的备份时间	Back up time 50% Load	20 min.	20 min.	15 min.
带载100%的备份时间	Back up time 100% Load	8 min.	8 min.	7 min.
各种保护功能	Various protection	过载和短路时保险丝熔断保护 / Fuse for overload and short-circuit 自动关断: 带载100-120% 120秒后关断, 带载120-150% 5秒后关断 Automatic shutdown after 120s at 110% load and after 5s at 150% load		
通讯接口	Communication	RS 232		
安规标准 / EMI	Safety / EMI	EN 50091-1 / EN 50091-2		
保护级别	Protection class	IP 20		
工作温度	Operation temperature	0 - 40°C		
湿度	Humidity	0 - 95% 无凝露 / non condensing		
噪音	Noise	<50dBA @ 1m	<50dBA @ 1m	<50dBA @ 1m
尺寸 (WxHxD)	Dimensions (WxHxD)	175x247x370 mm	175x247x473 mm	175x247x473 mm
机柜尺寸 (WxHxD)	Dimensions Rack (W H D)	19" 2HE 390mm	19" 3HE 485mm	19" 4HE 460mm
重量	Weight	16,0kg	28,0kg	37,0kg