

U
I

19"
OVP
OTP
IEEE
LAN

EA-HV 9000-6K-2000

- 宽范围输入电压90...264 V，带主动式PFC
- 效率高达 91%
- 输出功率：2000 W
- 输出电压：1200 V 至 0...12 kV
- 输出电流：170 mA 至 0...1.67 A
- 谐振转换器
- 高调整精度，低纹波
- 有过压保护（OVP）
- 有过温保护（OT）
- 3½位数字显示显示电压和电流
- LED指示状态提示
- 有闪络和短路保护功能
- 多功能模拟接口
 - 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
- 有桌面与和19"类型一体（3U）
- 可选数字接口：
 - GPIB / IEEE（带内置RS232端口）
 - Ethernet / LAN（带内置RS232端口）
 - USB EA-UTA12（外置）

- **Wide input voltage range 90...264 V with active PFC**
- **High efficiency up to 91%**
- **Output power: 2000 W**
- **Output voltages: 1200 V up to 12 kV**
- **Output currents: 170 mA up to 1.67 A**
- **Resonance converter**
- **High regulation accuracy, low ripple**
- **Voltage and current adjustable**
- **Overvoltage protection (OVP)**
- **Overtemperature protection (OT)**
- **3½ digit displays for voltage and current**
- **Status indication signal via LEDs**
- **Flashover & short circuit proof**
- **Analog interface with many functions**
 - **U / I programmable via 0...10 V**
 - **U / I monitoring via 0...10 V**
- **Temperature controlled fans for cooling**
- **Desktop unit and 19" in one (3U)**
- **Optional, digital interfaces**
 - **GPIB (IEEE) with RS232 (built-in)**
 - **Ethernet/LAN with RS232 (built-in)**
 - **USB EA-UTA12 (external)**

概要

EA-HV 9000系列是一款高压调频谐振变换器，已无数次验证其配备的性能。

产品配有一易用型10圈电位器，3½数字背光显示器，具有电压、电流和过压保护预设功能。

还有一模拟接口，可通过编程、记录电压和电流。

通过一连锁回路（安全关闭）也可从外部编程。

DC输出

本系列有多款不同类型，可选择1200 V和12 kV输出电压，170 mA和1.67 A输出电流，2000 W输出功率的型号。输出端位于产品后面板。

为保护连接负载，可设定一过压保护极限值(OVP)。

按需还可其它电压与功率级别的型号。

DC-输出端默认是与PE相连的（地，外壳）。按客户需求，所有型号也可做成相反极别（DC+连到PE），或由用户现场自己修改。

General

The high voltage power supplies of the EA-HV 9000 series are frequency modulated resonance converters and have proved themselves thousandfold.

The units are provided with easy-to-use 10-turn potentiometers, 3½ digit illuminated displays and preset functions for voltage, current and OVP.

An analog interface is provided to program and record voltage and current with 0...10 V.

The external programming connection is also equipped with an interlock loop (safety cutout).

DC output

A selection of DC output voltages between 1200 V and 12 kV and output currents between 170 mA and 1.67 A at an output power of 2000 W is available. The output terminal is located in the rear panel.

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

Other voltages and powers on request.

The DC- output is by default connected to PE (ground, enclosure). Upon request, all models can also delivered with reversed polarity (DC+ connected to PE) or modified by the user on location.



后板 / Rear panel EA-HV 9000-6K-2000

| 技术参数 | Technical Data | HV 9000-1K2-2000 | HV 9000-2K-2000 | HV 9000-4K-2000 | HV 9000-6K-2000 | HV 9000-12K-2000 |
|--------------------------------|---|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| AC输入电压 | Input voltage AC | 90...264V, 1ph+N ⁽¹⁾ | 90...264V, 1ph+N ⁽¹⁾ | 90...264V, 1ph+N ⁽¹⁾ | 90...264V, 1ph+N ⁽¹⁾ | 90...264V, 1ph+N ⁽¹⁾ |
| -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 |
| -230 V时的输入电流 | - Input current at 230 V | ~10 A ⁽¹⁾ | ~10 A ⁽¹⁾ | ~10 A ⁽¹⁾ | ~10 A ⁽¹⁾ | ~10 A ⁽¹⁾ |
| DC输出电压 | Output voltage DC | 0...1200 V | 0...2000 V | 0...4000 V | 0...6000 V | 0...12000 V |
| -0-100% 的负载调整率 | - Load regulation 0-100% load | <0,05% | <0,05% | <0,05% | <0,05% | <0,05% |
| - ±10% ΔU _{AC} 的线性调整率 | - Line regulation ±10% ΔU _{AC} | <0,05% | <0,05% | <0,05% | <0,05% | <0,05% |
| -纹波 BWL 20MHz | - Ripple BWL 20MHz | <0,05% | <0,05% | <0,05% | <0,05% | <0,05% |
| -负载从10%-100%调整需时 | - Regulation 10-100% load | <2 ms | <2 ms | <2 ms | <2 ms | <2 ms |
| -温度稳定度 | - Temperature stability | <50ppm/°C | <50ppm/°C | <50ppm/°C | <50ppm/°C | <50ppm/°C |
| -OVP过压保护调节范围 | - OVP adjustment | 0...1212 V | 0...2020 V | 0...4040 V | 0...6060 V | 0...12120 V |
| 输出电流 | Output current | 0...1,67 A | 0...1 A | 0...500 mA | 0...350 mA | 0...170 mA |
| -0-100% 的负载调整率 | - Load regulation 0-100% load | <0,05% | <0,05% | <0,05% | <0,05% | <0,05% |
| - ±10% ΔU _{AC} 的线性调整率 | - Line regulation ±10% ΔU _{AC} | <0,05% | <0,05% | <0,05% | <0,05% | <0,05% |
| -纹波 BWL 20MHz | - Ripple BWL 20MHz | <0,05% | <0,05% | <0,05% | <0,05% | <0,05% |
| -温度稳定度 | - Temperature stability | <50ppm/°C | <50ppm/°C | <50ppm/°C | <50ppm/°C | <50ppm/°C |
| 输出功率 | Output power | 2000 W | 2000 W | 2000 W | 2000 W | 2000 W |
| 模拟编程 | Analog programming | U / I, 0...10 V | | | | |
| 制冷方式 | Cooling | 风扇 / Fan | | | | |
| 工作温度 | Operation temperature | 0...50°C | | | | |
| 储存温度 | Storage temperature | -20°C...70°C | | | | |
| 尺寸(宽x高x长) | Dimensions (W H D) | 19" 3 HE/U 460 mm | | | | |
| 工作高度 | Operation altitude | max. 2000 m | | | | |
| 订购编号 | Ordering number | 26100103 | 26100104 | 26100114 | 26100105 | 26100106 |

⁽¹⁾ 当输入电流>16 A时功率将自动受限 / Automatic power limiting on input currents > 16 A