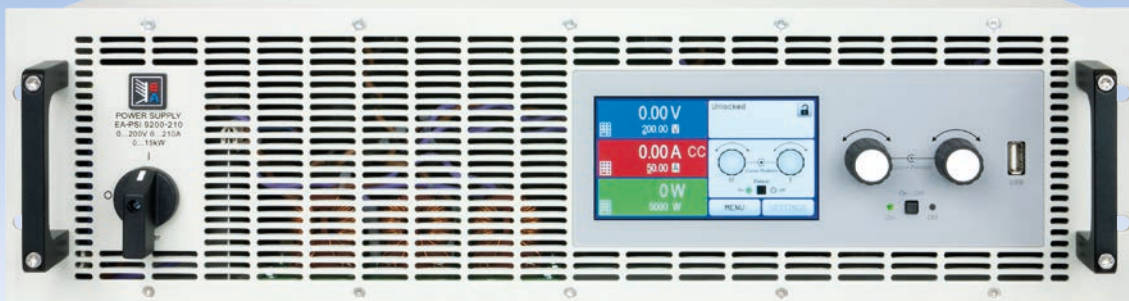
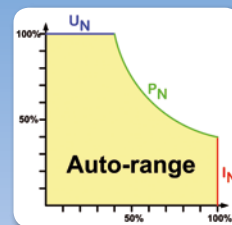




EA-PSI 9200-210 3U

- 多相输入340...460 V<sub>AC</sub>
- 效率高达95.5%
- 输出功率有：0...3.3 kW, 0...5 kW, 0...6.6 kW, 0...10 kW, 0...15 kW, 还可扩展至150 kW
- 输出电压：0...40 V 至 0...1500 V
- 输出电流：0...30 A 至 0...510 A 还可扩展至0...5100 A
- 灵活的功率调整输出
- 各种保护功能 (OVP, OCP, OPP, OTP)
- 直观的TFT触摸屏可显示数值、状态与通知
- 能自动检测的远程感测端
- 隔离模拟接口
  - 通过 0...10 V或0...5 V电压可对U / I / P编程
  - 通过 0...10 V或0...5 V电压可监控U / I
- 真实函数发生器
- 光伏方阵模拟功能
- 内阻模拟与调整
- 温控风扇制冷
- 符合SELV标准 (EN 60950)的40 V产品型号
- 配有USB端口
- 可选数字接口模块或选择安装IEEE/GPIB端口
- 支持SCPI指令语言带菜单的图形显示器

- Multi-phase input 340...460 V<sub>AC</sub>
- High efficiency up to 95,5%
- Output power ratings: 0...3.3 kW, 0...5 kW, 0...6.6 kW, 0...10 kW, 0...15 kW, expandable up to 150 kW
- Output voltages: 0...40 V up to 0...1500 V
- Output currents: 0...30 A up to 0...510 A Expandable up to 0...5100 A
- Flexible, power regulated output stage
- Various protection circuits (OVP, OCP, OPP, OTP)
- Intuitive TFT touch panel with display for values, status and notifications
- Remote sense with automatic detection
- Galvanically isolated, analog interface with
  - U / I / P programmable via 0...10 V or 0...5 V
  - U / I monitoring via 0...10 V or 0...5 V
- Integrated true function generator
- Photovoltaic array simulation
- Internal resistance simulation and regulation
- Temperature controlled fans for cooling
- 40 V models according to SELV (EN 60950)
- USB port integrated
- Optional, digital interface modules or alternatively installed IEEE/GPIB port
- SCPI command language supported

### 概要

EA-PSI 9000 3U 系列是一款由微处理器控制的高效实验室电源，其标准型号配备多种功能和特征。交互式菜单导航功能让用户使用起来极其方便、有效。

可对用户和进程文档进行编辑、存储，以及再次上载，从而改善重复测试或其它应用。

为了达到更大的输出功率，可配置高达150 kW和42U的机柜，以便满足客户需求。也可见128页。

### General

The microprocessor controlled high efficiency laboratory power supplies of series EA-PSI 9000 3U offer multiple functions and features in their standard version. User-friendly, interactive menu navigation makes the use of this equipment remarkably easy and most effective.

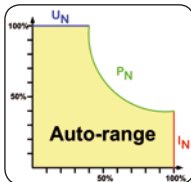
User and process profiles can be edited, saved and archived so that the reproducibility of a test or other application is improved.

In order to achieve even higher output power, cabinets with up to 150 kW and up to 42U size can be configured to suit the user's requirements. Also see page 128.



## 功率

本系列所有产品的输出功率可灵活变化，在低电流时输出更高电压，或在低电压时输出更大电流，都由最大额定输出功率来限制。其设定功率都可调。因此一台该仪器能涵盖大范围的应用领域。



## Power

All models are equipped with a flexible auto-ranging output stage which provides a higher output voltage at lower output current, or a higher output current at lower output voltage, always limited to the max. nominal output power. The power set value is adjustable with these models. Therefore, a wide range of applications can already be covered by the use of just one single unit.

## 输入

本系列所有型号都采用主动式PFC功率因数校正线路，专为在340 V - 460 V AC三相供电条件下操作而设计。而且，根据客户需求，可定制15 kW型号或用其组建的机柜组合，适合于588...796 V（加上中心点）输入电压下操作。

## Input

The device are equipped with an active Power Factor Correction circuit and are designed for a usage on a three-phase supply with 340 V - 460 V AC. Alternatively, models with 15 kW or cabinets based on these models can be delivered with input range 588...796 V AC (plus central point) upon request.

## 直流输出

本系列有多款不同型号，可选择0...40 V和0...1500 V输出电压，0...40 A和0...510 A输出电流，0...3.3 kW，0...5 kW，0...6.6 kW，0...10 kW或0...15 kW输出功率的各个型号。输出端位于产品后板。

## DC output

DC output voltages between 0...40 V and 0...1500 V, output currents between 0...40 A and 0...510 A and output power ratings of 0...3.3 kW, 0...5 kW, 0...6.6 kW, 0...10 kW or 0...15 kW are available. The output terminal is located on the rear panel.

## 保护功能

为保护连接负载，可设定一过压保护极限值(OVP)。，以及过流(OCP)与过功率(OPP)保护极限值。

## Protective features

For protection of the equipment connected, it is possible to set an overvoltage protection threshold (OVP), as well as one for overcurrent (OCP) and overpower (OPP).

一旦因任何缘故超过了这三个极限值中的一个，直流输出会被立即切断，在显示器和接口端还会发出一状态信号。

As soon as one of these thresholds is reached for any reason, the DC output will be immediately shut off and a status signal will be generated on the display and via the interfaces.

本产品还有过温保护，如果产品过热，它会关断直流输出。

There is furthermore an overtemperature protection, which will shut off the DC output if the device overheats.

## 远程感测端

远程感测输入端可直接连到负载设备，以补偿连线上一定程度的压降。如果感测输入端已接到负载上，本电源会自动检测并调整输出电压，以确保负载获得准确所需的电压值。

## Remote sense

The standard sense input can be connected directly to the load in order to compensate voltage drops along the power cables up to a certain level. If the sense input is connected to the load, the power supply will adjust the output voltage automatically to make ensure the accurate required voltage is available at the load.

## 显示器和控制键

图形显示器清晰显示输出电压/电流/功率的设定与实际值。LCD显示器为触摸式，用手指即可轻易控制产品所有功能。

## Display and controls

Set values and actual values of output voltage, output current and output power are clearly represented on the graphic display. The LC display is touch sensitive and can be intuitively used to control all functions of the device with just a finger.

可用旋钮或者直接数字键盘输入来调节设定电压、电流和、功率或内阻（内阻模拟）。

Set values of voltage, current, power or resistance (internal resistance simulation) can be adjusted using the rotary knobs or entered directly via a numeric pad.

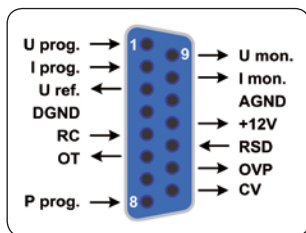
为避免误操作，可锁定所有操作控制键。

To prevent unintentional operations, all operation controls can be locked.

## 模拟接口

产品后面板上装有一隔离模拟接口。它提供模拟接口输入脚，接上0 V...10 V或0 V...5 V控制电压，可设置0...100%的设定电压、电流与功率。

模拟输出脚接上0 V...10 V或0 V...5 V电压，可监控输出电压与电流。此外，还有几个输入脚和输出脚，可用来控制和监控产品状态。



## Analog interface

There is a galvanically isolated analog interface terminal, located on the rear of the device. It offers analog inputs to set voltage, current and power from 0...100% through control voltages of 0 V...10 V or 0 V...5 V.

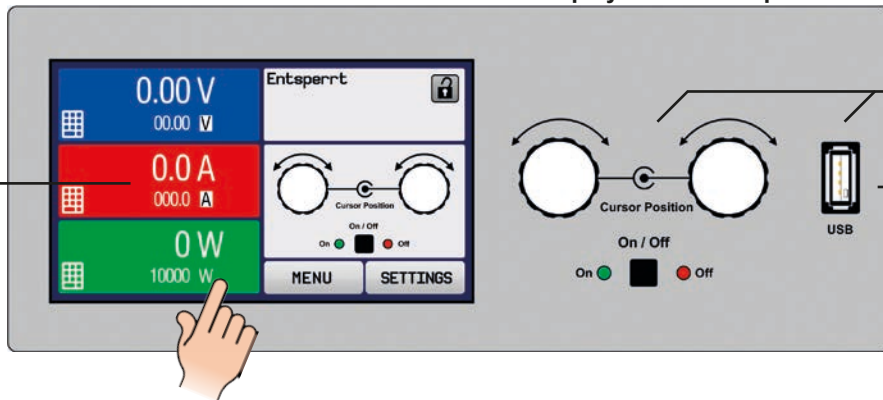
To monitor the output voltage and current, there are analog outputs with voltage ranges of 0 V...10 V or 0 V...5 V. Also, several inputs and outputs are available for controlling and monitoring the device status.



显示器与控制面板

Display and control panel

触摸屏显示器  
Display with touch panel



参数调节用旋钮  
Knobs for comfortable value adjustment

上传与保存函数用USB端口  
USB port for loading and saving functions

### 函数发生器

本系列产品都具有一可形成如下典型函数的真实函数发生器，并能将这些函数曲线应用于输出电压或输出电流上。发生器可通过前板的触摸屏设置或某一数字接口远程配置。

预定义函数会为用户提供所有必要的参数，如Y偏差值，时间/频率或幅度，一套完整的配置参数。



Dreieck  
三角形



Rechteck  
矩形

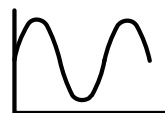


Trapez  
梯形

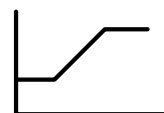
### Function generator

All models within this series include a true function generator which can generate typical functions, as displayed in the figure below, and apply them to either the output voltage or the output current. The generator can be completely configured and controlled by using the touch panel on the front of the device, or by remote control via one of the digital interfaces.

The predefined functions offer all necessary parameters to the user, such as Y offset, time / frequency or amplitude, for full configuration ability.



Sinus  
正弦



Rampe  
坡行



DIN 40839

除了基于任意发生器产生的标准函数外，它还可形成某些复杂的函数，并分为多达100组序列。这些一般用于研发和生产的测试上。

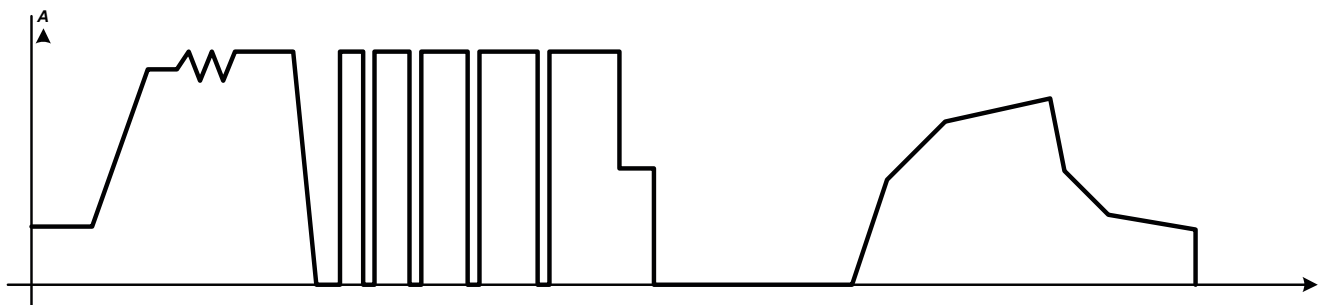
通过前板的USB端口可将这些序列上载使用或存储于一标准U盘上，这样方便更换不同的测试序列。

下图是一个任意发生器可实现的由40个序列组成的复杂曲线，仅为虚构范例。可以在产品外面或者于产品上创建，然后上载使用或保存：

Additionally to the standard functions, which are all based upon a so-called arbitrary generator, this base generator is accessible for the creation and execution of complex sets of functions, separated into up to 100 sequences. Those can be used for testing purpose in development and production.

The sequences can be loaded from and saved to a standard USB flash drive via the USB port on the front panel, making it easy to change between different test sequences.

The figure below shows a fictional example of a complex function of 40 sequences, as it can be realised with the arbitrary generator. The function can be created on the device or externally and then loaded or saved:



此外还有一个XY发生器，能产生如UI或IU这类的函数，一般用户以表格（CSV文档）形式定义，然后从U盘上传。

针对光伏相关的测试，还可形成PV曲线，当做用户可调关键参数。甚至通过后续的固件更新，可安装更多的曲线特性，供用户选择。

There is furthermore a XY generator, which is used to generate other functions like UI or IU, which are defined by the user in form of tables (CSV file) and then loaded from USB drive.

For photovoltaics related tests, a PV curve can be generated and used from user-adjustable key parameters. Even more characteristics can be installed for user selection by applying future firmware updates.



## 扩展功能

按照客户需求可将多个单机产品进行不同的组合，能装入最高为42U的机柜，从而获得高达150 kW的总功率。

本产品标配并联链接模式。使用内置主从总线，在主机上可形成总功率、总电压与总电流。也可进行一定电压的串联。也可见128页说明。



## Extensibility

The singles units can be combined into various configurations upon request, also in cabinets of up to 42U, in order to build systems of up to 150 kW total power. Parallel connection is the standard connection mode and there will be total formation of power, voltage and current on the main unit, by using the standard built-in master-slave bus. Series connection is also possible up to a certain voltage. Also see page 128.

## 监控特性

所有型号都有电压电流阶段监控，可以检测是否过压或过流，以及欠压或欠流。监测到的结果会通过多个可选方式通知用户：

- 只显示信号；即使错误仍存在，也不影响输出。
- 警告一直持续，消除错误后必须确认该警告信息。
- 报警会暂时性地关断输出，也可发出声频信号。

## Supervision features

All models offer supervision features for voltage and current steps. The supervision is configurable to monitor voltage or current over- and undershooting. As a reaction, the device can generate a notification of selectable type:

- *Signals* are displayed only; even if the fault is still active, without affecting the output.
- *Warnings* remain active and must be acknowledged after the fault is removed.
- *Alarms* will shut off the output instantly and can also be signalled acoustically.

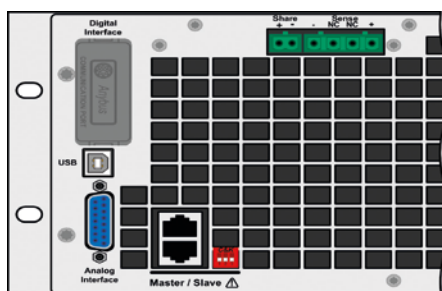
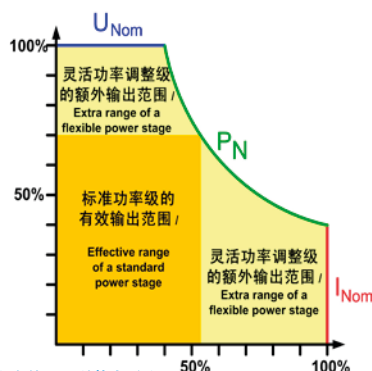
## 选购件

- 适合RS232、CANopen、Modbus TCP、Profibus、Profinet/IO、Devicenet或Ethernet的绝缘数字接口模块。接口插槽位于产品后板（仅针对标准型号），方便用户插上新模块或替换当前模块。产品会自动检测接口，并提示需要进行少许的配置或不用配置。也可参考122页。
- 还可安装带固定 GPIB 端口的三位接口（3 W），而非接口模块用的默认插槽
- 高速跃变（仅针对1 kW以上产品，见132页）\*
- 水冷模块\*\*

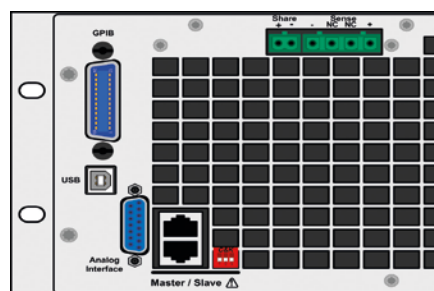
## Options

- Digital interface modules for RS232, CANopen, Modbus TCP, Profibus, Profinet/IO, Devicenet or Ethernet. The interface slot is located on the rear panel (standard models only), making it easy for the user to plug in a new interface or to replace an existing one. The interface will be automatically detected by the device and requires no or only little configuration. See page 122.
- Three-way interface (3 W) with a rigid GPIB port installed instead of the default slot for retrofittable interface modules.
- High Speed ramping (see page 132) \*
- Water Cooling \*\*

## 数字接口卡 / Digital interfaces



可标准型号后板所配端子 /  
Rear connectors of the standard models



带选项功能型号后板所配端子 /  
Rear connectors of models with option 3 W



| 技术参数                               | Technical Data                           | Series EA-PSI 9000 3U / 系列                                                                                                       |
|------------------------------------|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| <b>AC输入电压</b>                      | <b>Input AC</b>                          |                                                                                                                                  |
| - 电压                               | - Voltage standard                       | 340...460 V, 2ph-3ph                                                                                                             |
| - 频率                               | - Frequency                              | 45...65 Hz                                                                                                                       |
| - 功率因数                             | - Power factor                           | >0.99                                                                                                                            |
| <b>DC输出电压</b>                      | <b>Output voltage DC</b>                 |                                                                                                                                  |
| - 精确度                              | - Accuracy                               | <0.1%                                                                                                                            |
| - 负载0-100% 时的稳定度                   | - Stability at 0-100% load               | <0.05%                                                                                                                           |
| - 在 $\pm 10\% \Delta U_{IN}$ 时的稳定度 | - Stability at $\pm 10\% \Delta U_{IN}$  | <0.02%                                                                                                                           |
| - 负载从10%-100%调整需时                  | - Regulation 10-100% load                | <2 ms                                                                                                                            |
| - 负载从10-90%上升需时                    | - Slew rate 10-90%                       | 最长30 ms                                                                                                                          |
| - 过压保护                             | - Overvoltage protection                 | 可调, 范围为0...110% $U_{nenn}$ / adjustable, 0...110% $U_{nom}$                                                                      |
| - 直流端关闭时空载放电需时                     | - No load discharge time on DC off       | 100% U 针对 / to <60 V; 少于10 s / less than 10 s                                                                                    |
| <b>输出电流</b>                        | <b>Output current</b>                    |                                                                                                                                  |
| - 精确度                              | - Accuracy                               | <0.2%                                                                                                                            |
| - 负载0-100% $\Delta U_A$ 时的稳定度      | - Stability at 0-100% $\Delta U_{OUT}$   | <0.15%                                                                                                                           |
| - 在 $\pm 10\% \Delta U_{IN}$ 时的稳定度 | - Stability at $\pm 10\% \Delta U_{IN}$  | <0.05%                                                                                                                           |
| <b>输出功率</b>                        | <b>Output power</b>                      |                                                                                                                                  |
| - 精确度                              | - Accuracy                               | <1%                                                                                                                              |
| <b>过压类别</b>                        | <b>Overvoltage category</b>              | 2                                                                                                                                |
| <b>保护功能</b>                        | <b>Protection</b>                        | OT, OVP, OPP, PF, OCP <sup>(2)</sup>                                                                                             |
| <b>隔离耐压</b>                        | <b>Isolation</b>                         |                                                                                                                                  |
| - 输入对外壳                            | - Input to enclosure                     | 2500 V DC                                                                                                                        |
| - 输入对输出                            | - Input to output                        | 2500 V DC                                                                                                                        |
| - 输出对外壳                            | - Output to enclosure                    | DC-对PE最大耐压为400 V / Max.400 V on DC- against PE                                                                                   |
| <b>污染等级</b>                        | <b>Pollution degree</b>                  | 2                                                                                                                                |
| <b>保护级别</b>                        | <b>Protection class</b>                  | 1                                                                                                                                |
| <b>显示器与面板</b>                      | <b>Display and panel</b>                 | 带触摸屏的图形显示器 / Graphics display with touch panel                                                                                   |
| <b>数字接口</b>                        | <b>Digital interfaces</b>                |                                                                                                                                  |
| - 内置型                              | - Built-in                               | 1x 通讯用A型USB / 1x USB type B for communication<br>1x GPIB (带3 W可选功能 / 1x GPIB (optional with option 3 W)                          |
| - 插槽型                              | - Slot                                   | 1x 可更换的插入式模块 / 1x for retrofittable plug-in modules:<br>RS232, RS485/422, CANopen, Profibus, Profinet, Ethernet                  |
| <b>模拟编程</b>                        | <b>Analog interface</b>                  | 内置15-针D-Sub母插 / Built in, 15-pole D-Sub, female                                                                                  |
| - 输入范围                             | - Input range                            | 0...5 V 或 0...10 V (可转换) / 0...5 V or 0...10 V (switchable)                                                                      |
| - U / I 的精确度                       | - Accuracy U / I                         | 0...10 V: <0.2%                      0...5 V: <0.4%                                                                              |
| - 可编程分辨率                           | - Programming resolution                 | 见下表 / See tables below                                                                                                           |
| <b>串联操作</b>                        | <b>Series operation</b>                  | 可实现, 任意直流负极端对PE最大有400 V的电压转移 / possible, with max. potential shift of 400 V against PE on any DC minus pole                      |
| <b>并联操作</b>                        | <b>Parallel operation</b>                | 可实现, 通过真实主从操作, 可连接多达10台产品 (经共享总线) / yes, with true master-slave, up to 10 units (via Share bus)                                  |
| <b>安全标准</b>                        | <b>Standards</b>                         | EN 61326, IEC 1010, EN 61010<br>EMC通过TÜV认证, 且符合 / EMC TÜV approved according to<br>IEC 61000-6-2:2005<br>IEC 61000-6-3:2006 等级 B |
| <b>制冷</b>                          | <b>Cooling</b>                           | 风扇, 也可选: 水冷 / Fans (optional: water)                                                                                             |
| <b>工作温度</b>                        | <b>Operation temperature</b>             | 0...50°C                                                                                                                         |
| <b>储存温度</b>                        | <b>Storage temperature</b>               | -20...70°C                                                                                                                       |
| <b>相对湿度</b>                        | <b>Relative humidity</b>                 | <80%, n.c.                                                                                                                       |
| <b>使用高度</b>                        | <b>Operation altitude</b>                | <2000 m                                                                                                                          |
| <b>产品尺寸 (宽x高x长) <sup>(1)</sup></b> | <b>Dimensions (W H D) <sup>(1)</sup></b> | 19" 3 HE/U 609 mm                                                                                                                |

(1 仅为外壳尺寸, 非产品整体尺寸 / Enclosure only, not overall

(2 见第133页 / See page 133



| 技术参数                | Technical Data                | PSI 9040-170 3U                                | PSI 9080-170 3U                                | PSI 9200-70 3U                                 | PSI 9360-40 3U                                 |
|---------------------|-------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|
| DC输出电压              | Output voltage DC             | 0...40 V                                       | 0...80 V                                       | 0...200 V                                      | 0...360 V                                      |
| - 纹波 <sup>(1)</sup> | - Ripple <sup>(1)</sup>       | <200 mV <sub>PP</sub><br><16 mV <sub>RMS</sub> | <200 mV <sub>PP</sub><br><16 mV <sub>RMS</sub> | <300 mV <sub>PP</sub><br><40 mV <sub>RMS</sub> | <320 mV <sub>PP</sub><br><55 mV <sub>RMS</sub> |
| - 感测端电压补偿           | -Sense compensation           | ~ 1 V                                          | ~ 2 V                                          | ~ 5 V                                          | ~ 7.5 V                                        |
| 输出电流                | Output current                | 0...170 A                                      | 0...170 A                                      | 0...70 A                                       | 0...40 A                                       |
| - 纹波 <sup>(1)</sup> | - Ripple <sup>(1)</sup>       | <80 mA <sub>RMS</sub>                          | <80 mA <sub>RMS</sub>                          | <22 mA <sub>RMS</sub>                          | <18 mA <sub>RMS</sub>                          |
| 输出功率                | Output power                  | 0...3300 W                                     | 0...5000 W                                     | 0...5000 W                                     | 0...5000 W                                     |
| 效率                  | Efficiency                    | ~93%                                           | ~93%                                           | ~95%                                           | ~93%                                           |
| U的编程分辨率             | Programming resolution U      | ≤2 mV                                          | ≤4 mV                                          | ≤9 mV                                          | ≤15 mV                                         |
| U的编程精确度             | Programming accuracy U        | ≤40 mV                                         | ≤80 mV                                         | ≤200 mV                                        | ≤360 mV                                        |
| I的编程分辨率             | Programming resolution I      | ≤7 mA                                          | ≤7 mA                                          | ≤3 mA                                          | ≤2 mA                                          |
| I的编程精确度             | Programming accuracy I        | ≤340 mA                                        | ≤340 mA                                        | ≤140 mA                                        | ≤80 mA                                         |
| 重量 <sup>(2)</sup>   | Weight <sup>(2)</sup>         | ~ 17 kg                                        | ~ 17 kg                                        | ~ 17 kg                                        | ~ 17 kg                                        |
| 产品编号 <sup>(3)</sup> | Article number <sup>(3)</sup> | 06230350                                       | 06230351                                       | 06230352                                       | 06230353                                       |

| 技术参数                | Technical Data                | PSI 9500-30 3U                                 | PSI 9750-20 3U                                  | PSI 9040-340 3U                                | PSI 9040-510 3U                                |
|---------------------|-------------------------------|------------------------------------------------|-------------------------------------------------|------------------------------------------------|------------------------------------------------|
| DC输出电压              | Output voltage DC             | 0...500 V                                      | 0...750 V                                       | 0...40 V                                       | 0...40 V                                       |
| - 纹波 <sup>(1)</sup> | - Ripple <sup>(1)</sup>       | <350 mV <sub>PP</sub><br><70 mV <sub>RMS</sub> | <800 mV <sub>PP</sub><br><200 mV <sub>RMS</sub> | <320 mV <sub>PP</sub><br><25 mV <sub>RMS</sub> | <320 mV <sub>PP</sub><br><25 mV <sub>RMS</sub> |
| - 感测端电压补偿           | -Sense compensation           | ~ 10 V                                         | ~ 15 V                                          | ~ 1 V                                          | ~ 1 V                                          |
| 输出电流                | Output current                | 0...30 A                                       | 0...20 A                                        | 0...340 A                                      | 0...510 A                                      |
| - 纹波 <sup>(1)</sup> | - Ripple <sup>(1)</sup>       | <16 mA <sub>RMS</sub>                          | <16 mA <sub>RMS</sub>                           | <160 mA <sub>RMS</sub>                         | <120 mA <sub>RMS</sub>                         |
| 输出功率                | Output power                  | 0...5000 W                                     | 0...5000 W                                      | 0...6600 W                                     | 0...10000 W                                    |
| 效率                  | Efficiency                    | ~95.5%                                         | ~94%                                            | ~93%                                           | ~93%                                           |
| U的编程分辨率             | Programming resolution U      | ≤21 mV                                         | ≤31 mV                                          | ≤2 mV                                          | ≤2 mV                                          |
| U的编程精确度             | Programming accuracy U        | ≤500 mV                                        | ≤750 mV                                         | ≤40 mV                                         | ≤40 mV                                         |
| I的编程分辨率             | Programming resolution I      | ≤2 mA                                          | ≤1 mA                                           | ≤14 mA                                         | ≤21 mA                                         |
| I的编程精确度             | Programming accuracy I        | ≤60 mA                                         | ≤40 mA                                          | ≤680 mA                                        | ≤1.1 A                                         |
| 重量 <sup>(2)</sup>   | Weight <sup>(2)</sup>         | ~ 17 kg                                        | ~ 17 kg                                         | ~ 24 kg                                        | ~ 30 kg                                        |
| 产品编号 <sup>(3)</sup> | Article number <sup>(3)</sup> | 06230354                                       | 06230355                                        | 06230356                                       | 06230363                                       |

| 技术参数                | Technical Data                | PSI 9080-340 3U                                | PSI 9200-140 3U                                | PSI 9360-80 3U                                 | PSI 9500-60 3U                                 |
|---------------------|-------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|
| DC输出电压              | Output voltage DC             | 0...80 V                                       | 0...200 V                                      | 0...360 V                                      | 0...500 V                                      |
| - 纹波 <sup>(1)</sup> | - Ripple <sup>(1)</sup>       | <320 mV <sub>PP</sub><br><25 mV <sub>RMS</sub> | <300 mV <sub>PP</sub><br><40 mV <sub>RMS</sub> | <320 mV <sub>PP</sub><br><55 mV <sub>RMS</sub> | <350 mV <sub>PP</sub><br><70 mV <sub>RMS</sub> |
| - 感测端电压补偿           | -Sense compensation           | ~ 2 V                                          | ~ 5 V                                          | ~ 7.5 V                                        | ~ 10 V                                         |
| 输出电流                | Output current                | 0...340 A                                      | 0...140 A                                      | 0...80 A                                       | 0...60 A                                       |
| - 纹波 <sup>(1)</sup> | - Ripple <sup>(1)</sup>       | <160 mA <sub>RMS</sub>                         | <44 mA <sub>RMS</sub>                          | <35 mA <sub>RMS</sub>                          | <32 mA <sub>RMS</sub>                          |
| 输出功率                | Output power                  | 0...10000 W                                    | 0...10000 W                                    | 0...10000 W                                    | 0...10000 W                                    |
| 效率                  | Efficiency                    | ~93%                                           | ~95%                                           | ~93%                                           | ~95%                                           |
| U的编程分辨率             | Programming resolution U      | ≤4 mV                                          | ≤9 mV                                          | ≤95 mV                                         | ≤21 mV                                         |
| U的编程精确度             | Programming accuracy U        | ≤80 mV                                         | ≤200 mV                                        | ≤350 mV                                        | ≤500 mV                                        |
| I的编程分辨率             | Programming resolution I      | ≤2 mA                                          | ≤1 mA                                          | ≤14 mA                                         | ≤21 mA                                         |
| I的编程精确度             | Programming accuracy I        | ≤60 mA                                         | ≤40 mA                                         | ≤680 mA                                        | ≤1.1 mA                                        |
| 重量 <sup>(2)</sup>   | Weight <sup>(2)</sup>         | ~ 24 kg                                        | ~ 24 kg                                        | ~ 24 kg                                        | ~ 24 kg                                        |
| 产品编号 <sup>(3)</sup> | Article number <sup>(3)</sup> | 06230357                                       | 06230358                                       | 06230359                                       | 06230360                                       |

(1) RMS值: NF 0...300KHz, PP值: HF 0...20MHz / RMS value: LF 0...300 kHz, PP value: HF 0...20MHz

(2) 针对标准型号, 带可选件的重量会不同 / of standard version, models with options may vary

(3) 标准型号的产品编码, 带3 W选项功能的编码则会不同 / Article number of the standard version, models with option 3 W installed have different article numbers.



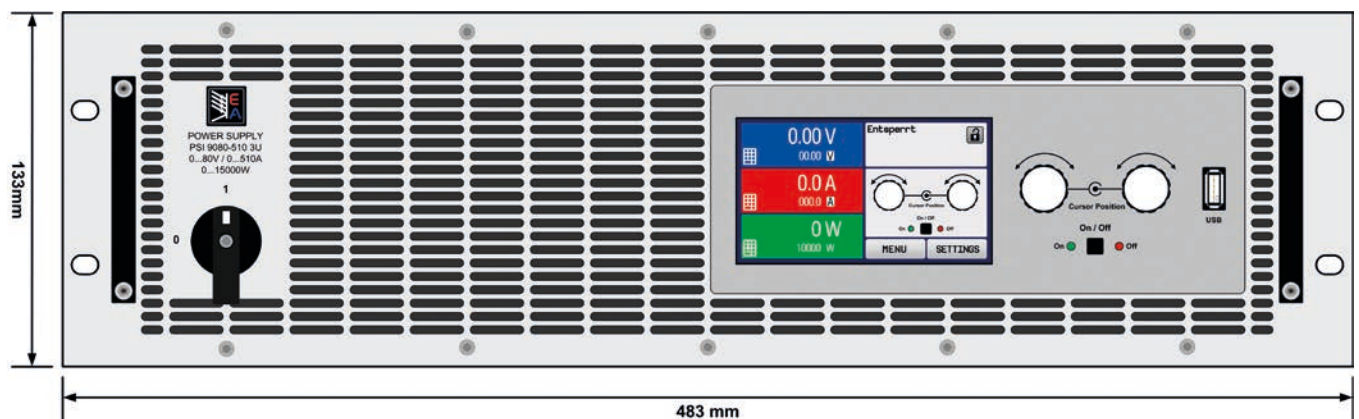
| 技术参数                | Technical Data                | PSI 9750-40 3U                                  | PSI 91000-30 3U                                  | PSI 9080-510 3U                                | PSI 9200-210 3U                                |
|---------------------|-------------------------------|-------------------------------------------------|--------------------------------------------------|------------------------------------------------|------------------------------------------------|
| DC输出电压              | Output voltage DC             | 0...750 V                                       | 0...1000 V                                       | 0...80 V                                       | 0...200 V                                      |
| - 纹波 <sup>(1)</sup> | - Ripple <sup>(1)</sup>       | <800 mV <sub>PP</sub><br><200 mV <sub>RMS</sub> | <1600 mV <sub>PP</sub><br><350 mV <sub>RMS</sub> | <320 mV <sub>PP</sub><br><25 mV <sub>RMS</sub> | <300 mV <sub>PP</sub><br><40 mV <sub>RMS</sub> |
| - 感测端电压补偿           | -Sense compensation           | ~ 15 V                                          | ~ 20 V                                           | ~ 2.5 V                                        | ~ 6 V                                          |
| 输出电流                | Output current                | 0...40 A                                        | 0...30 A                                         | 0...510 A                                      | 0...210 A                                      |
| - 纹波 <sup>(1)</sup> | - Ripple <sup>(1)</sup>       | <32 mA <sub>RMS</sub>                           | <22 mA <sub>RMS</sub>                            | <240 mA <sub>RMS</sub>                         | <66 mA <sub>RMS</sub>                          |
| 输出功率                | Output power                  | 0...10000 W                                     | 0...10000 W                                      | 0...15000 W                                    | 0...15000 W                                    |
| 效率                  | Efficiency                    | ~94%                                            | ~95%                                             | ~93%                                           | ~95%                                           |
| U的编程分辨率             | Programming resolution U      | ≤31 mV                                          | ≤41 mV                                           | ≤4 mV                                          | ≤9 mV                                          |
| U的编程精确度             | Programming accuracy U        | ≤750 mV                                         | ≤1 V                                             | ≤80 mV                                         | ≤200 mV                                        |
| I的编程分辨率             | Programming resolution I      | ≤2 mA                                           | ≤2 mA                                            | ≤21 mA                                         | ≤9 mA                                          |
| I的编程精确度             | Programming accuracy I        | ≤80 mA                                          | ≤60 mA                                           | ≤1.1 A                                         | ≤420 mA                                        |
| 重量 <sup>(2)</sup>   | Weight <sup>(2)</sup>         | ~ 24 kg                                         | ~ 24 kg                                          | ~ 30 kg                                        | ~ 30 kg                                        |
| 产品编号 <sup>(3)</sup> | Article number <sup>(3)</sup> | 06230361                                        | 06230362                                         | 06230364                                       | 06230365                                       |

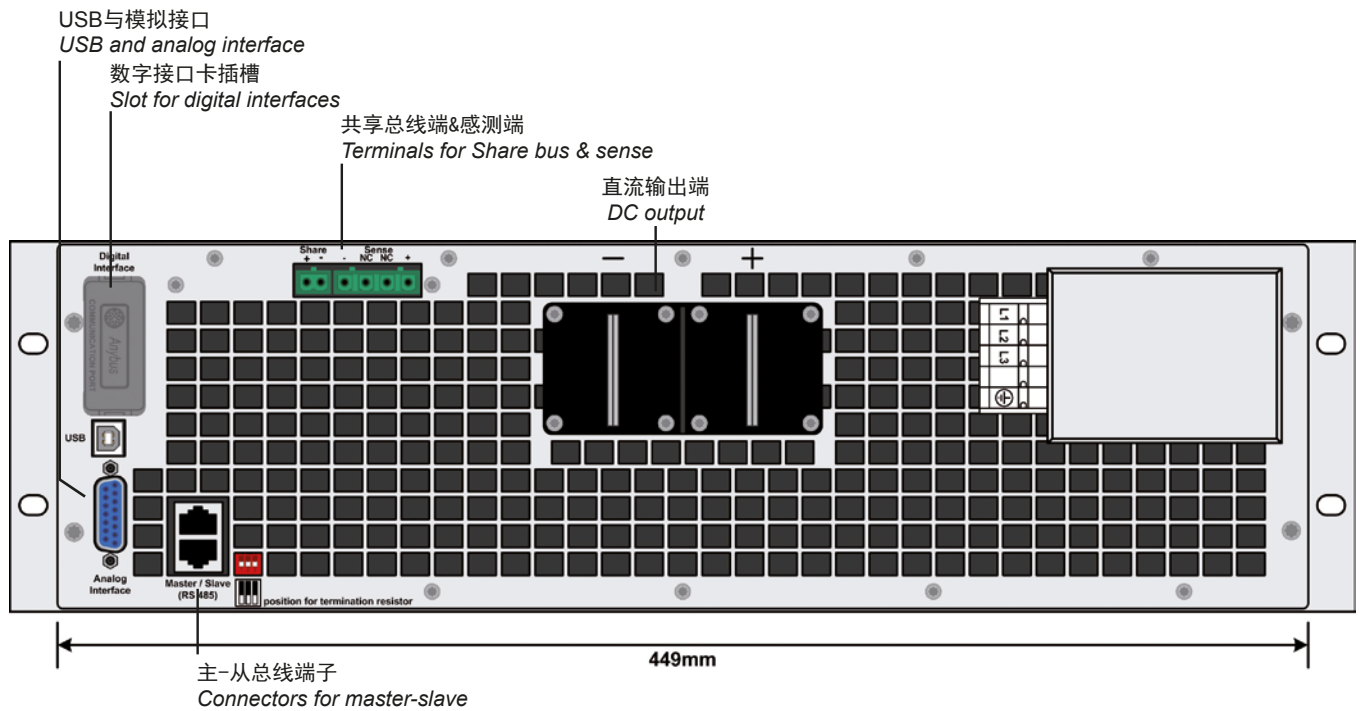
| 技术参数                | Technical Data                | PSI 9360-120 3U                                | PSI 9500-90 3U                                 | PSI 9750-60 3U                                  | PSI 91500-30 3U                                  |
|---------------------|-------------------------------|------------------------------------------------|------------------------------------------------|-------------------------------------------------|--------------------------------------------------|
| DC输出电压              | Output voltage DC             | 0...360 V                                      | 0...500 V                                      | 0...750 V                                       | 0...1500 V                                       |
| - 纹波 <sup>(1)</sup> | - Ripple <sup>(1)</sup>       | <320 mV <sub>PP</sub><br><55 mV <sub>RMS</sub> | <350 mV <sub>PP</sub><br><70 mV <sub>RMS</sub> | <800 mV <sub>PP</sub><br><200 mV <sub>RMS</sub> | <2400 mV <sub>PP</sub><br><400 mV <sub>RMS</sub> |
| - 感测端电压补偿           | -Sense compensation           | ~ 7.5 V                                        | ~ 10 V                                         | ~ 15 V                                          | ~ 30 V                                           |
| 输出电流                | Output current                | 0...120 A                                      | 0...90 A                                       | 0...60 A                                        | 0...30 A                                         |
| - 纹波 <sup>(1)</sup> | - Ripple <sup>(1)</sup>       | <50 mA <sub>RMS</sub>                          | <48 mA <sub>RMS</sub>                          | <48 mA <sub>RMS</sub>                           | <26 mA <sub>RMS</sub>                            |
| 输出功率                | Output power                  | 0...15000 W                                    | 0...15000 W                                    | 0...15000 W                                     | 0...15000 W                                      |
| 效率                  | Efficiency                    | ~93%                                           | ~95%                                           | ~94%                                            | ~95%                                             |
| U的编程分辨率             | Programming resolution U      | ≤15 mV                                         | ≤21 mV                                         | ≤31 mV                                          | ≤61 mV                                           |
| U的编程精确度             | Programming accuracy U        | ≤350 mV                                        | ≤500 mV                                        | ≤750 mV                                         | ≤1.5 V                                           |
| I的编程分辨率             | Programming resolution I      | ≤5 mA                                          | ≤4 mA                                          | ≤3 mA                                           | ≤2 mA                                            |
| I的编程精确度             | Programming accuracy I        | ≤240 mA                                        | ≤180 mA                                        | ≤120 mA                                         | ≤60 mA                                           |
| 重量 <sup>(2)</sup>   | Weight <sup>(2)</sup>         | ~ 30 kg                                        | ~ 30 kg                                        | ~ 30 kg                                         | ~ 30 kg                                          |
| 产品编号 <sup>(3)</sup> | Article number <sup>(3)</sup> | 06230366                                       | 06230367                                       | 06230368                                        | 06230369                                         |

(1) RMS值: NF 0...300KHz, PP值: HF 0...20MHz / RMS value: LF 0...300 kHz, PP value: HF 0...20MHz

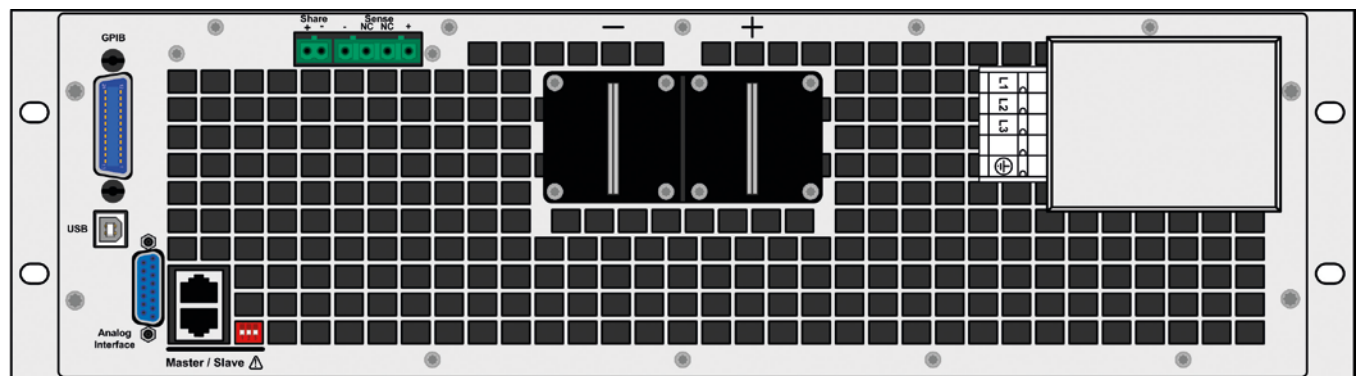
(2) 针对标准型号, 带可选的重量会不同 / of standard version, models with options may vary

(3) 标准型号的产品编码, 带3 W选项功能的编码则会不同 / Article number of the standard version, models with option 3 W installed have different article numbers.





标准型号后视图 / Rear view of base model



配3 W选项功能型号后视图 / Rear view with option 3 W

