

EA-PSI 9000 3U + WR SLAVE 15 kW



Slave power supply modules for series EA-PSI 9000 3U



EA-PSI 9500-00 3U Slave

- For 208 V, 400 V or wide range 342...528 V AC supply
- High efficiency up to 95.5%
- Output power ratings: 15 kW, expandable up to 540 kW
- Output voltages: 80 V up to 1500 V
- Output currents: 60 A up to 510 A
- Flexible, power regulated output stage
- Various protection circuits (OVP, OCP, OPP, OTP)
- Remote sensing with automatic detection
- Galvanically isolated USB port
- Integrated true function generator
- Photovoltaics array simulation, including EN 50530
- Internal resistance simulation and regulation
- Discharge circuit ($U_{out} < 60 \text{ V}$ in $\leq 10 \text{ s}$)
- SCPI command set and ModBus RTU support
- LabView VIs and control software for Windows

General

Series EA-PSI 9000 3U Slave features 15 kW "slave modules", matching the corresponding models of series EA-PSI 9000 3U. Their purpose is to extend the power and quickly build systems from 30 kW up to 540 kW power rating. They are designed to run in parallel connection and master-slave operation of up to 36 units in total. All technical specifications are identical to EA-PSI 9000 3U series, except for the available interfaces. The selection of the proper Slave model for a "master" model is supposed to match the AC supply range. It means, for example, that a PSI 9080-510 3U Slave is the correct extension for corresponding master model PSI 9080-510 3U.

Handling and configuration

The extensive control panel, as usual with regular power supply models, has been reduced to the absolute necessary. For manual handling, status indication and configuration it offers a few LEDs, a pushbutton and an USB port. The devices are configured with a software through the front USB port, for example with EA Power Control (see page 118). Alternatively, commands from SCPI or ModBus RTU protocols are supported.

AC supply

All models are provided with an active Power Factor Correction circuit. There is a choice of three different AC supply input ranges. The standard models run with **400 V** (L-L, $\pm 15\%$), while there are also models for **208 V** (L-L, $\pm 10\%$), for the **US** and Japan market. The third choice are wide range (**WR**) models with 342...528 V, which cover typical worldwide grid voltages of **380 V**, **400 V** and **480 V**.

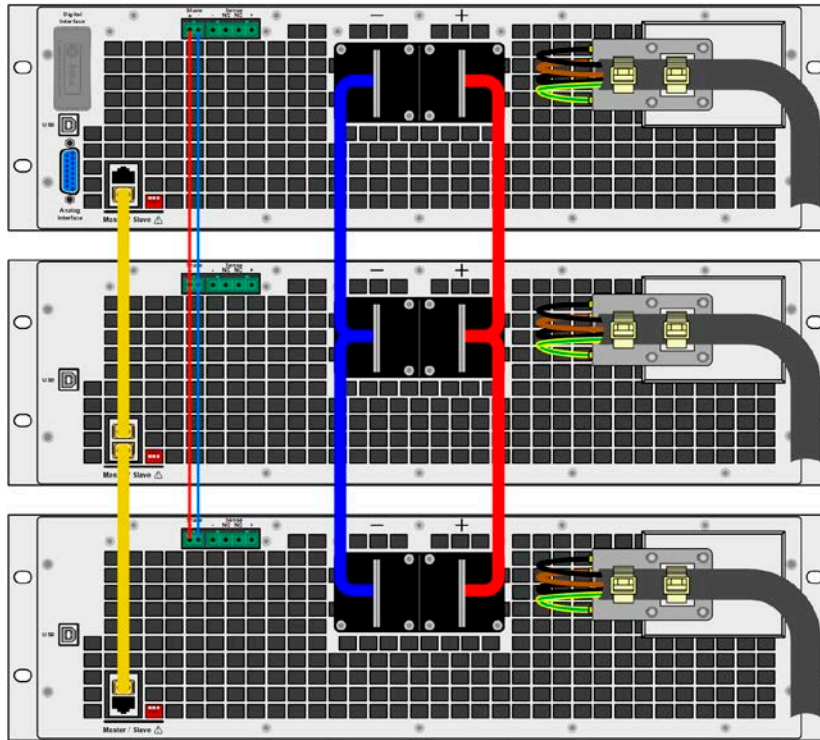
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Master-slave system

The Slave models are intended to be used in a master-slave system. The master unit is usually a matching 15 kW model from EA-PSI 9000 3U series. It would then feature a display for setup, control and monitoring of values from the entire system.

Configuring this system is easily done by installing the slave units in parallel to the master unit, preferably into a rack or cabinet. They are connected to the AC supply and paralleled on their DC outputs (cables or copper bars), plus also linked via master-slave bus and Share bus. See the figure below.

The only thing to do on the master is to enable master-slave and the system will self-configure to the current number of powered units and represent itself to the user or a control software accordingly.



Technical specifications

Most technical specifications of the Slave models are identical to the corresponding model from series EA-PSI 9000 3U. Hence they are not listed here. The tables below only show the most important values.

Technical Data	PSI 9080-510 3U Slave	PSI 9200-210 3U Slave	PSI 9360-120 3U Slave	PSI 9500-90 3U Slave
Rated voltage & range	0...80 V	0...200 V	0...360 V	0...500 V
Rated current & range	0...510 A	0..210 A	0...120 A	0...90 A
Rated power & range	0...15000 W	0...15000 W	0...15000 W	0...15000 W
Suitable for	PSI 9080-510 3U	PSI 9200-210 3U	PSI 9360-120 3U	PSI 9500-90 3U
Ordering number (400 V model)	06290364	06290365	06290366	06290367
Ordering number (US 208 V model)	inquire	inquire	inquire	06298367
Ordering number (WR model)	06280364	06280365	06280366	06280367

Technical Data	PSI 9750-60 3U Slave	PSI 91000-40 3U Slave	PSI 91500-30 3U Slave
Rated voltage & range	0...750 V	0...1000 V	0...1500 V
Rated current & range	0...60 A	0..40 A	0...30 A
Rated power & range	0...15000 W	0...15000 W	0...15000 W
Suitable for	PSI 9750-60 3U	PSI 91000-40 3U	PSI 91500-30 3U
Ordering number (400 V model)	06290368	not available	06290368
Ordering number (US 208 V model)	inquire	not available	inquire
Ordering number (WR model)	06280368	06280370	06280369

