



# EA-PSE 9000 3U + WR 5 kW - 15 kW

Programmable high efficiency DC Power supplies



EA-PSE 9500-90 3U



- For 208 V, 400 V or wide range 342...528 V AC supply
- High efficiency up to 95.5%
- Output power ratings: 5 kW, 10 kW or 15 kW, expandable up to 480 kW
- Output voltages: 60 V up to 1500 V
- Output currents: 20 A up to 510 A
- Autoranging output stage
- Various protection circuits (OVP, OCP, OPP, OTP)
- Control panel with pushbuttons and blue LCD for actual values, set values, status and alarms
- Galvanically isolated, analog interface
- Temperature-controlled fans for cooling
- Discharge circuit ( $U_{out} < 60 \text{ V}$  in  $\leq 10 \text{ s}$ )
- USB port and master-slave integrated
- Optional, digital interface modules
- SCPI and ModBus RTU/TCP command set

## General

The microprocessor-controlled high efficiency laboratory power supplies of series EA-PSE 9000 3U merge some of important features of the devices from series EA-PSI 9000 3U and EA-PS 9000 3U. All technical specifications regarding AC supply and DC output, as well as all models are identical to those two series. The difference of the EA-PSE 9000 series devices compared to those of EA-PS 9000 3U is the bigger number of available digital interfaces, which even allow for the connection to field buses. On the other hand, the number of available extra features compared to series EA-PSI 9000 3U and manual handling have been reduced intentionally. This makes the PSE devices ideals for systems which are only used in remote control.

## 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

All models feature a digital master-slave bus by default. It can be used to connect up to 32 units of identical models in parallel operation to a bigger system with total formation of the actual value of voltage, current and power. The configuration of the master-slave system is either completely done on the control panels of the units or by remote control via any of digital communication interfaces. Handling of the master unit is possible by manual or remote control (any interface).

### Options

- Digital interface modules for RS232, CAN, CANopen, ModBus TCP, Profibus, Profinet, EtherCAT or Ethernet. The interface slot is located on the rear panel, making it easy for the user to plug in a new interface or to replace an existing one.
- Water-cooling (only for models up to 200 V)

### Technical specifications

For the remaining technical specifications of the below listed models please refer to the identical models of series EA-PS 9000 3U or EA-PSI 9000 3U.

Technical Data	PSE 9080-170	PSE 9200-70	PSE 9360-40	PSE 9500-30	PSE 9750-20
Rated voltage & range	0...80 V	0...200 V	0...360 V	0...500 V	0...750 V
Rated current & range	0...170 A	0...70 A	0...40 A	0...30 A	0...20 A
Rated power & range	0...5000 W	0...5000 W	0...5000 W	0...5000 W	0...5000 W
Order nr. (208 V model)	06238701	06238702	06238703	06238704	06238705
Order nr. (400 V model)	06230701	06230702	06230703	06230704	06230705
Order nr. (WR model)	06270701	06270702	06270703	06270704	06270705

Technical Data	PSE 9080-340	PSE 9200-140	PSE 9360-80	PSE 9500-60	PSE 9750-40
Rated voltage & range	0...80 V	0...200 V	0...360 V	0...500 V	0...750 V
Rated current & range	0...340 A	0...140 A	0...80 A	0...60 A	0...40 A
Rated power & range	0...10000 W	0...10000 W	0...10000 W	0...10000 W	0...10000 W
Order nr. (208 V model)	06238708	06238709	not available	06238711	06238712
Order nr. (400 V model)	06230708	06230709	06230710	06230711	06230712
Order nr. (WR model)	06270708	06270709	06270710	06270711	06270712

Technical Data	PSE 9080-510	PSE 9200-210	PSE 9360-120	PSE 9500-90	PSE 9750-60
Rated voltage & range	0...80 V	0...200 V	0...360 V	0...500 V	0...750 V
Rated current & range	0...510 A	0...210 A	0...120 A	0...90 A	0...60 A
Rated power & range	0...15000 W	0...15000 W	0...15000 W	0...15000 W	0...16000 W
Order nr. (208 V model)	06238714	06238715	not available	06238717	06238718
Order nr. (400 V model)	06230714	06230715	06230716	06230717	06230718
Order nr. (WR model)	06270714	06270715	06270716	06270717	06270718

Technical Data	PSE 91000-40 <sup>(1)</sup>	PSE 91500-30
Rated voltage & range	0...1000 V	0...1500 V
Rated current & range	0...40 A	0...30 A
Rated power & range	0...15000 W	0...15000 W
Order nr. (208 V model)	06238720	not available
Order nr. (400 V model)	not available	06230719
Order nr. (WR model)	06270720	06270719

(1) Since this model isn't available in the reference series PS 9000 3U: insulation of DC+/DC- is identical to PS 91000-30