

CATÁLOGO DE POTENCIA: FUENTES Y CARGAS DC

GUÍA RÁPIDA DE SELECCIÓN



Triple Channel devices:

Mini Selection Guide



EA-PSB 20000 Triple 3U:

Power supply and load in one - high-performance testing with three output channels for a wide application range. More power, more throughput, more flexibility. As a new generation 3-channel bidirectional power supply the EA-PSB 20000 Triple in 3U allows synchronized testing to meet these requirements. The product can operate independently or as part of a complete test system, including the rack in which it is housed.

↓ Key Features

- 3U housing with up to 3 x 5 kW power output
- Voltage: up to 920 V
- Current: up to 170 A per channel
- Channels: 3
- DC input / output with autoranging
- Integrated function generator



EA-PSB 20000 Triple 4U:

High-Performance testing with three independent channels for a wide application range. More power, more throughput, more flexibility. As a new generation 3-channel bidirectional power supply the EA-PSB 20000 Triple in 4U allows synchronized testing to meet these requirements. The product can operate independently or as part of a complete test system, including the rack in which it is housed.

↓ Key Features

- Economic, air-cooled triple power up to 10 kW per channel
- Voltage: up to 920 V
- Current: up to 340 A per channel
- Channels: 3
- DC input / output with autoranging
- Integrated function generator



EA-PSB 20000 Triple 4U WC:

Water-cooled devices where dust-free operation is needed. With the PSB 20000 Triple in 4U WC you have a power supply and load in one, three output channels and the full flexibility for high performance testing. As a new generation 3-channel bidirectional power supply the EA-PSB 20000 Triple in 4U WC allows synchronized testing to meet these requirements. The use of water-cooling increases reliability and makes the power supply suitable for harsh environmental conditions and also in clean room environments. The product can operate independently or as part of a complete test system, including the rack in which it is housed.

↓ Key Features

- Water-cooled version with triple output for dust-free operation
- Up to 10kW and up to 920V per channel
- Current: up to 340 A per channel
- Channels: 3
- DC input / output with autoranging
- Integrated function generator

Single Channel devices:

Mini Selection Guide



EA-10000 Series 2U:

With the 10000 2U PSB series EA has expanded its product portfolio for applications needing less power but still high flexibility. 1.5 kW and 3 kW devices are available as a bidirectional power supply. All devices are programmable via analogue and digital interfaces as well as via the 5" TFT touch display. They offer the same configuration and functionality as those in this series with higher power.

Power Supply Bidirectional	EA-PSB 10000 2U
Power Supply Intelligent	EA-PSI 10000 2U
Power Supply	EA-PS 10000 2U
Electronic Load Regenerative	EA-ELR 10000 2U

↓ Key Features

- 2U compact power up to 3 kW as supply, load or both in one
- Voltage: up to 1500 V
- Current: up to 120 A
- DC input / output with autoranging
- Master-Auxiliary bus for up to 64 participating devices
- Integrated function generator



EA-10000 Series 3U:

Our 10000 3U offers the established devices with 5kW, 10kW and 15kW power in a new dimension. The AC variable input range of 3 phase 208V to 480V for global use is achieved with the latest SiC technology. Efficiency of over 96% make these devices highly economic. They can be expanded with a 2000V DC variant for applications in e.g. the PV industry. Thanks to the intelligent master-auxiliary bus all power classes with the same output voltage could be combined (2U, 3U and 4U). Thus, a system can be exactly configured to meet your performance needs.

Power Supply Bidirectional	EA-PSB 10000 3U
Power Supply	EA-PSI 10000 3U
Power Supply	EA-PS 10000 3U
Electronic Load Regenerative	EA-ELR 10000 3U

↓ Key Features

- Power: up to 15 kW / up to 2000 V / up to 510 A
- AC main input range 208V – 480V, 3 ph AC
- DC input / output with autoranging
- Master-Auxiliary bus for up to 64 participating devices
- Colour 5" TFT Touchscreen display
- Integrated function generator

Single Channel devices:

Mini Selection Guide



EA-10000 Series 4U:

The flagship unit, 10000 4U is, in this form and performance range, the market leader. With 30 kW power all models are available either air or water cooled. Thus, they are available for operation in hostile conditions. With a factor of 3.83 our 920 V 125 A model, which was specially developed for automotive applications (800 V powertrain), offers the widest autoranging range. Thus, with a single device, multiple applications can be covered, saving costs. With the best efficiency in the market no energy is wasted in unnecessary heat generation and hence contributes to CO₂ reduction.

Power Supply Bidirectional	EA-PSB 10000 4U
Power Supply	EA-PSI 10000 4U
Power Supply	EA-PS 10000 4U
Electronic Load Regenerative	EA-ELR 10000 4U

↓ Key Features

- Power: up to 30 kW
- Voltage: up to 2000 V
- Current: up to 1000 A
- DC input / output with autoranging
- Master-Auxiliary bus for up to 64 participating devices
- Integrated function generator

EA-10000 Series 4U WC:

Water-cooled version for a dust-free operation. The 10000 series in 4U is a programmable, high-performance power supply unit offering high dynamic output and precise voltage/current control. Its 4U form factor makes it space-efficient for rack mounting, ideal for testing high-power devices. It provides protection, remote control and high efficiency, making it perfect for industrial and lab applications. The use of watercooled devices increases reliability and makes the power supply suitable for harsh environmental conditions and suitable for use in clean room environments.

Power Supply Bidirectional	EA-PSB 10000 4U WC
Power Supply	EA-PSI 10000 4U WC
Power Supply	EA-PS 10000 4U WC
Electronic Load Regenerative	EA-ELR 10000 4U WC

↓ Key Features

- Water-cooled version with 30 kW for dust-free operation
- Voltage: up to 2000 V for most applications
- Current: up to 1000 A
- DC input / output with autoranging
- Up to 1.92 MW with 64 devices in parallel as Master-Auxiliary
- Integrated function generator

Industrial devices:

Mini Selection Guide



EA-10000 Industrial Series 4U:

The new Industrial series combines high safety with low operating costs. All models feature overcurrent, overvoltage, overpower and overtemperature protection functions. The bidirectional power supplies and regenerative electronic loads have power factor correction of 0.99 and return up to 96% of the absorbed power back to the grid. More than 50 variants available.

Power Unit Bidirectional	EA-PUB 10000 4U
Power Unit	EA-PU 10000 4U
Power Unit Load	EA-PUL 10000 4U

↓ Key Features

- Pure power up to 30 kW, for remote control
- Voltage: up to 2000 V
- Current: up to 1000 A
- DC input / output with autoranging
- Up to 1.92 MW with 64 devices in parallel in a Master-Auxiliary operation
- Integrated function generator



EA-10000 Industrial Series 4U WC:

Water-cooled version for dust-free operation. The 10000 Industrial series offers powerful performance with 30 kW in 4U for use in automation systems. It provides protection, remote control and high efficiency, making it perfect for industrial applications. The use of watercooled devices increases reliability and makes the power supply suitable for harsh environmental conditions and suitable for use in clean room environments.

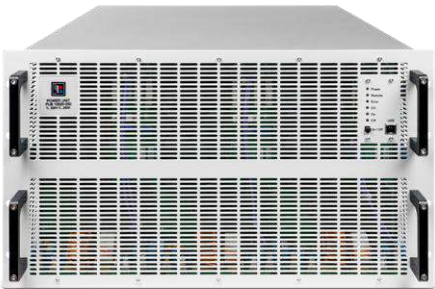
Power Unit Bidirectional	EA-PUB 10000 4U WC
Power Unit	EA-PU 10000 4U WC
Power Unit Load	EA-PUL 10000 4U WC

↓ Key Features

- Water-cooled version with up to 30 kW for dust-free operation
- Voltage: up to 2000 V
- Current: up to 1000 A
- DC input / output with autoranging
- Master-Auxiliary bus for up to 64 participating devices (up to 1.92 MW)
- Integrated function generator

Industrial devices:

Mini Selection Guide



EA-10000 Industrial Series 6U:

The 10000 Industrial Series offers powerful performance with 60 kW in 6U and up to 300 kW in a single rack. Systems with up to 3.84MW can be achieved by combining 64 units in parallel with minimum floor space and maximum efficiency.

Power Unit Bidirectional	EA-PUB 10000 6U
Power Unit	EA-PU 10000 6U
Power Unit Load	EA-PUL 10000 6U

↓ Key Features

- High power, high density with up to 60 kW in one unit
- Voltage: up to 2000 V
- Current: up to 1000 A
- DC input / output with autoranging
- Up to 3.84 MW with 64 devices in parallel (Master-Auxiliary)
- Integrated function generator

EA-10000 Industrial Series 6U WC:

The 10000 Industrial Series offers powerful performance with 60 kW in 6U and up to 300 kW in a single rack. Systems with up to 3.84MW can be achieved by combining 64 units in parallel with minimum floor space and maximum efficiency. The use of watercooled devices increases reliability and makes the power supply suitable for harsh environmental conditions

Power Unit Bidirectional	EA-PUB 10000 6U WC
Power Unit	EA-PU 10000 6U WC
Power Unit Load	EA-PUL 10000 6U WC

↓ Key Features

- Dust-free operation through water cooling with up to 60 kW
- Voltage: up to 2000 V
- Current: up to 480 A
- DC input / output with autoranging
- Master-Auxiliary bus for up to 64 devices in parallel (3.84 MW)
- Integrated function generator

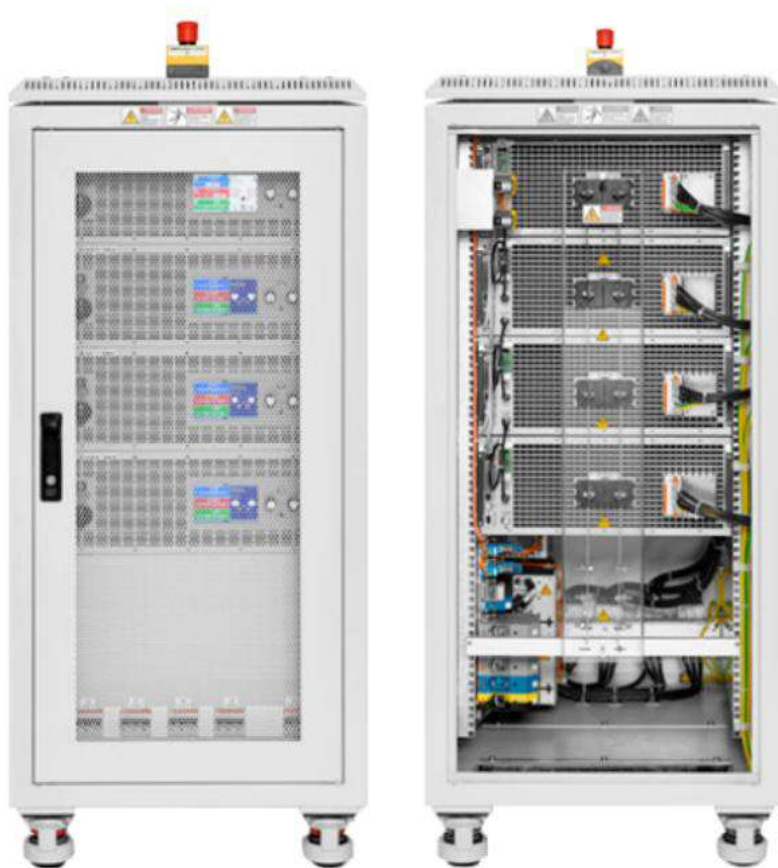
Rack Integration

Datatec Services

dataTec

DATATEC-RACK:

Turnkey projects. Tell us your project requirements and Datatec will deliver your parallel or serialized power system, with redundant security, monitoring, and automation systems. Other test and measurement electronics instruments can be integrated with Elektro Automatik power systems.



Serial Connection Box (SCB)

Datatec & Elektro Automatik provide devices to satisfy the high voltage applications (up to 3000 Vcc) serializing power supplies or electronic loads

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