

Tektronix® +



Elektro-Automatik



UP TO
3.84 MW



Pure & Powerful

EA-10000 Industrial Series

60 kW in 6U

30 kW in 4U

Up to 300 kW

in a single rack



EA-10000 Industrial Series

New power density

With the new EA-10000 Industrial series, EA Elektro-Automatik (EA) has achieved a breakthrough in power density. The motto: Pure & Powerful! Powerful performance with 60 kW in 6U, 30 kW in 4U and up to 300 kW in a single rack, combined with pure design without manual display on the front.

Large product variety

The product variety includes a total of 50 models with the device types EA-PU 10000 programmable DC power supplies, EA-PUB 10000 programmable bidirectional power supplies and EA-PUL 10000 DC regenerative electronic loads.

High safety, low operating costs

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 to the grid.

Efficiency in development and testing

All devices work with the same firmware and have similar input and output characteristics. The common programming and user interface saves time when developing and setting up test and control systems that require multiple power units.

EA-10000 Industrial Series with 6U Power

21 models with 60 kW power

| Power Unit Bidirectional | | EA-PUB 10000 6U | |
|--------------------------|------------|-----------------|-------------|
| Power Unit Load | | EA-PUL 10000 6U | |
| Power Unit | | EA-PU 10000 6U | |
| Model | Voltage | Current | Power |
| 10360-480 | 0 – 360 V | 0 – 480 A | 0 – 60000 W |
| 10500-360 | 0 – 500 V | 0 – 360 A | 0 – 60000 W |
| 10750-240 | 0 – 750 V | 0 – 240 A | 0 – 60000 W |
| 10920-250 | 0 – 920 V | 0 – 250 A | 0 – 60000 W |
| 11000-160 | 0 – 1000 V | 0 – 160 A | 0 – 60000 W |
| 11500-120 | 0 – 1500 V | 0 – 120 A | 0 – 60000 W |
| 12000-80 | 0 – 2000 V | 0 – 80 A | 0 – 60000 W |

EA-10000 Industrial Series with 4U Power

29 models with 30 kW power

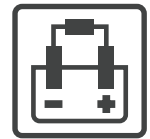
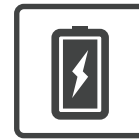
| Power Unit Bidirectional | | EA-PUB 10000 4U | |
|--------------------------|------------|-----------------|-------------|
| Power Unit Load | | EA-PUL 10000 4U | |
| Power Unit | | EA-PU 10000 4U | |
| Model | Voltage | Current | Power |
| 10060-1000 | 0 – 60 V | 0 – 1000 A | 0 – 30000 W |
| 10080-1000 | 0 – 80 V | 0 – 1000 A | 0 – 30000 W |
| 10200-420 | 0 – 200 V | 0 – 420 A | 0 – 30000 W |
| 10360-240 | 0 – 360 V | 0 – 240 A | 0 – 30000 W |
| 10500-180 | 0 – 500 V | 0 – 180 A | 0 – 30000 W |
| 10750-120 | 0 – 750 V | 0 – 120 A | 0 – 30000 W |
| 10920-125 | 0 – 920 V | 0 – 125 A | 0 – 30000 W |
| 11000-80 | 0 – 1000 V | 0 – 80 A | 0 – 30000 W |
| 11500-60 | 0 – 1500 V | 0 – 60 A | 0 – 30000 W |
| 12000-40 | 0 – 2000 V | 0 – 40 A | 0 – 30000 W |

Powerful Features

- DC input/output with autoranging
- Digitally (FPGA) controlled DC input/output
U – I – P – R
- Latest SiC technology
- LEDs in the front to indicate the device status
- Optional stainless steel water cooling system
- AC mains input with extended range
(380 V – 480 V, 3ph AC)
- Built-in interfaces: Ethernet, USB, Analog
- Optional interfaces: CAN, CANopen, EtherCAT, RS232, Profibus, Profinet, Modbus, Ethernet
- Communication with PCs and PLCs
- SCPI or ModBus programming modes
- Galvanically isolated Share-Bus
- Master-Auxiliary bus up to 64 participants of the EA-10000 series
- Function generator

For Industrial Applications

- For use in ATE systems and automated process control systems
- For testing batteries and fuel cells
- For simulations of batteries and solar systems
- For the complete discharge of batteries for recycling
- Reliable power supply for electrolysis plants
- As sustainable power electronics for aviation application



High-Power Racks

Save equipment costs and rack space

Increased performance can reduce the number of power supplies needed for a high-performance system. This saves significant capital and operating costs as well as important rack space. Power is provided in a smaller footprint. In addition, the electronic loads operate regeneratively, with efficiencies up to 96 %.

Powerful rack performance

- A 19" rack with 42 U for a system with 300 kW
- Up to 64 devices with 60kW each as master aux parallel operation possible
- For high power applications up to 3.84 MW
- Emergency stop (machine standard EN60204-1)

Optionally available:

- Mains monitoring (ENS)
- Insulation monitor
- Copper busbar for DC output



Leading-edge power electronics made by EA

Wide application spectrum. Technological excellence.
Global customer reach.

The EA Elektro-Automatik Group is Europe's leading supplier in the area of power electronics for R & D and industrial applications. At the headquarters in Germany in the industrial center of North Rhine-Westphalia, 450 qualified associates, in a facility of 19000 m², research, develop and manufacture high-tech devices such as programmable power supplies, high-power supplies and electronic loads with and without mains feedback.

Development partner in forward looking sectors

With high performance criteria and a broad application spectrum, EA has established itself as the development partner in forward looking industries. Thus, EA equipment is being used in battery and fuel cell technology. It is used in wind and solar energy, electrochemicals, process technology, telecommunications, automobile industry and many more future orientated sectors.

Automated quality assurance

Results and experience from decades of R & D flow continually into new solutions. Automatic test systems with specially developed soft- and hardware assure consistently high product quality. Flexible production processes support fast reaction to changing customer requirements.

Global customer reach, value sharing

As a globally active company, EA maintains close contact with national and international customers and partners. The sales network includes branches in China, USA and Singapore, a sales office in Spain and an extensive service and partner network. EA continues to expand and, as a mid-size employer, takes full responsibility for development and production in Germany. Value based joint working is characterised by mutual respect and open communication.

Technological excellence is driving innovation of tomorrow

The foundation of the company in 1974 was based on innovation, a tradition which is maintained today. What started with the development of simple mains adaptors is continued today in the overall concept of technology leadership. With highly specialised power supply systems for a multitude of applications, EA is driving the future of power electronics – technologically excellent for high performance and designed for resource protection and energy saving.

