



Elektro-Automatik

Conventional electronic load series EL 9000B 3U

Why should I choose for an EA-EL 9000B 3U?

Advantages:

- High-performance FPGA (Field-Programmable-Gate-Array Lattice ECP3LFE17EA) allowing complex control settings and operations, up to 10 times faster programming-reaction time. Bandwidth for U, I, P and R measurements = 1 MHz for all signals at once
- Highly isolated structure, therefore much less sensitive against disturbances under operation (higher immunity, higher reliability)
- EMI compliant to EN 61000-6-3, EN 55022 class B (meets EMI requirement for residential-, commercial- and light-industrial environment)
- Active suppression in the DC-input circuit, oscillations typically caused by long DC leads or unexpected impedances by the DC source connected are significantly reduced.
- Thermal management, a two-time over-load capability is provided (except 500V/750V models). If subject to an overheating condition, no unit will be “hard” switched off but softly be de-rating down to the minimum (e.g. 0W).
- Input-filter protection circuit, preventing damage caused by DC voltage applied that may have a high-frequency AC part.
- Standard on-board 2-way Interface: Analogue 0-5V/0-10V and USB (all galvanically isolated) as well as intelligent Slot, enables users to retrofit manifold digital interfaces (such as CAN, CANopen, Ethernet, Devicenet, Modbus, Profibus/net and more) at any time.
- Share-bus function in connection with laboratory power supplies series PS and PSI 9000 2U and 3U, to form e.g. a source-sink/2Q solution.
- TFT Touch Display with 64.000 colours with integrated comfortable function generator (default waveforms: sinus, triangle, rectangular, trapezoid, DIN 40838/car, arbitrary, ramp, IU/IU) as well as alarm manager
- Summary function in master-slave parallel operation, equal power-sharing/load distribution
- User-calibration function: Upon a local servicing/repair, the user may measure the deviation values himself and key in the correction values into the menu to restore ex-factory precision
- High resolution of up to 16 Bit (very fine programming and read-back steps)
- Voltage accuracy 0.1% of nominal
- Professional user control software for up to 20 devices (license fee applies)
- Safety compliant to IEC/EN 61010