



Elektro-Automatik

## Why should I choose for a PSI 9000 3U?

### Advantages:

- Auto-ranging Output: Compared to power systems with conventional (rectangular) output characteristic, the auto-ranging feature allows to power a much larger number of devices (EUTs) with different nominal voltages
- Highly isolated structure, therefore much less sensitive against disturbances under operation (high electro-magnetic immunity to industrial environment standard, high reliability)
- Up to 1000V of isolation (-) DC pole to PE (protective earth) depending on model
- EMI compliant to EN 61000-6-3, EN 55022 class B (meets EMI requirement for residential-, commercial- and light-industrial environment)
- Fast discharge of output capacitance to IEC 1010 (high user safety, output voltage will decrease to <60VDC within < 10 sec. even under no-load condition)
- Standard on-board 2-way Interface: Analogue 0-5V/0-10V and USB (all galvanically isolated) as well as intelligent Slot, users may retrofit manifold digital interfaces (such as CAN, CANopen, Ethernet, Devicenet, Modbus, Profibus/net and more) themselves at any time
- 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
- Integrated R-Mode (inner-resistance simulation): To simulate batteries (lead-acid, lead-gel, Nickel-Cadmium, Lithium, Nickel-metal-Hydride and others)
- Integrated PV-source and fuel-cell simulator
- Summary function in master-slave parallel operation (cost-optimized slave units available)
- Self-calibration function: User may measure deviation values himself and key in the correction values into the menu to restore ex-factory precision
- High-performance FPGA (Field-Programmable-Gate-Array Lattice ECP3LFE17EA) allowing up to 10 times faster programming-reaction time
- 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)
- TÜV approved to IEC/EN 61010 (CB Report)