

PARAMERUS COMPANY

was founded in 2019 as an innovative enterprise for the design and manufacturing of power electronics products for use in industrial, scientific and medical fields.

POWER ELECTRONICS

DESIGN AND MANUFACTURING

- PRECISION HIGH VOLTAGE POWER SUPPLIES
- HIGH VOLTAGE SOLID-STATE SWITCHES
- HIGH VOLTAGE PULSE GENERATORS WITH POWER OF UP TO 20 KW

1200 SQUARE METER BUILDING WITH

- THREE LABORATORIES FOR THE DESIGN OF PULSE POWER SUPPLIES
- EMC AND CLIMATE CONTROL TESTING LABORATORY
- PROTOTYPING LABORATORY

Fully automated production based on the equipment of YAMAHA (Japan), SEHO (Germany) and ERSA (Germany), as well as sections for packaging, vacuum filling and control testing.

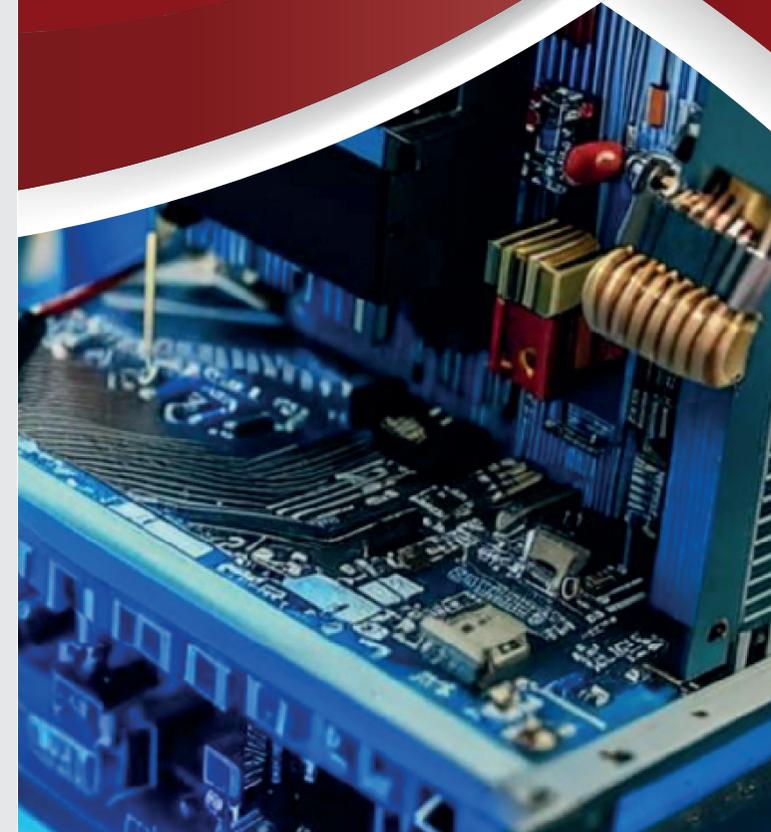


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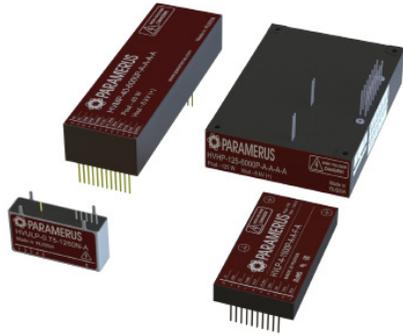


DESIGN AND MANUFACTURING



OUR PRODUCTS

HIGH VOLTAGE NON-ISOLATED DC – DC POWER SUPPLIES



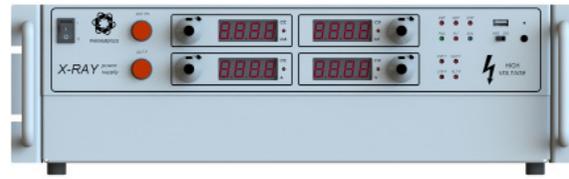
- * fixed or adjustable output voltage;
- * output voltage from 65 to 40,000 V;
- * power from 0.1 to 125 Watts;
- * low ripple level (up to 0.005%);
- * current and voltage monitors;
- * digital interfaces (optional).

HIGH VOLTAGE ISOLATED DC – DC POWER SUPPLIES

-  output voltage from 25 to 12,000 V;
-  power from 1.5 to 20 Watts.

Applications: photomultipliers (PMT), mass spectrometers, gas chromatographs, pulse generators, elementary particle detectors, electrostatics, scanning electron microscopes, Geiger-Muller tubes/counters, microchannel plates, reference power/voltage supplies, laser technology, modulators, radar technology.

HIGH VOLTAGE AC – DC POWER SUPPLIES



- * power from 10 W to 60 kW;
- * voltage from 125 V to 160 kV;
- * ripple less than 0.1%;
- * efficiency more than 90%;
- * digital interfaces: RS-232, RS-485, USB, Ethernet;
- * polarity reversal and bipolar design.

Series:

THVLP – desktop version, power from 10 to 125 W;

SHVLP – case version 1U in a server rack, power from 10 W to 1 kW;

SHVHP – case version from 2U to 8U in a server rack, power from 1 to 20 kW;

XHVHP - for X-ray equipment with a built-in filament power source;

L-HVLP - laboratory precision power supplies with ultra-low pulsation.

Applications: electrostatic filters, semiconductor material processing, electron beam welding, capacitor charging, high-power RF transmitters, high-power radar systems, X-ray systems, ion implantation, R&D, test equipment, reference power supplies.

HIGH VOLTAGE SOLID-STATE SWITCHING DEVICES AND PULSE GENERATORS



- * single-cycle and two-cycle versions;
- * switching voltage up to 50 kV;
- * peak current up to 1200 A;
- * control of standard TTL signal.

Applications: laser amplifiers, active quality factor modulation lasers, pulse selectors, Pockels and Kerr cells, materials synthesis, spectrometry, piezo actuators, mobile and on-board systems, R&D.

LOW VOLTAGE POWER SUPPLIES



- * nominal power from 0.1 W to 60 kWt;
- * output voltage from 5 V to 800 V;
- * active PFC.