EPOWER SYS

High VOLTAGE precision power supplies

HTM

HTM is the EPOWER SYS range of high voltage power supplies, focused on scientific research and leading-edge industrial applications.

Although each application of high voltage power may have specific requirements, EPOWER SYS provides excellent features in typical critical features such as:

- Stability
- Voltage ripple
- Repeatability
- Accuracy

Reliable and predictable operations have a strong impact on scientific research. The power supply must have a stable and reproducible performance, therefore careful design and high precision and quality components are included in all EPOWER SYS power converters.

High performance systems without fine control may be incomplete. In order to have the maximum flexibility, HTM power supplies can be controlled and monitored with a 7'' touch screen and remotely with multiple communication interfaces.

Applications

Systems that require high performance and high voltage pulsed or DC power supplies:

- Plasma generation and beam extraction in light source facilities
- Ion and electron beam systems for medicine, industry and scientific research
- Capacitor charging

Other remarkable characteristics

- Control and check of internal temperature at ten different points, as well as of the fans speed
- Numerous errors and signals checks, with internal and external hardware interlocks and protections
- Air insulation allowing reduced size and good serviceability
- Floating or grounded system possibility, including a state display

Customization

Since each application has specific requirements, we offer customized adaptation or designs of the high voltage power supply to comply with your requests.

HTM specifications summary

Maximum output voltage	100kV
Maximum output current	100mA
Maximum output power	10kW
Stability over 8 hours	< 0.001%
Setting resolution	$\pm 10^{-4}$
Output voltage ripple	< 0.05%
Linear regulation	< 0.001%
Load regulation	<0.001%
Ambient temperature	-20...50ºC

Key features of HTM

- Up to 100 kV
- Excellent voltage stability (<10 ppm), with DCCT technology
- Fast and highly repeatable set point. Output is accurately set, regardless of the temperature conditions in the room and without warm-up times, thanks to a Peltier module (thus negligible temperature coefficient)
- Extremely low ripple and noise
- Outstanding usability and control options, with fully graphic interface and multiple connection possibilities (Ethernet, RS-232, RS-485)