

iseq

HIGH VOLTAGE .EXACTLY.

HIGH VOLTAGE POWER SUPPLIES FOR RESEARCH AND SCIENCE

Up to
100 kV
10 kW

MMS
Modular high
voltage system

Rent now
at CERN
Electronics
Pool

HPS
Digital controlled
AC/DC high voltage
power supplies

SHR
Switchable high precision
AC/DC desktop
HV Source-Measure-Unit

DC/DC high voltage converter

HPS
COMPACT

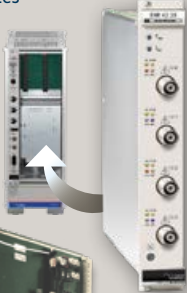
- ▶ Advanced resonance converter technology
- ▶ High accuracy, low ripple and noise
- ▶ High precision Source-Measure-Units (SMU)
- ▶ Large number of detector bias supplies
- ▶ Wide range of product series and configurations
- ▶ Different form factors available
- ▶ Proven technology in research and science applications for many years
- ▶ 3 years warranty on many devices, extendable to 5 years

ISEG-HV.COM/CERN





Different types and sizes of crates available



CONTROLLER BOARDS WITH LINUX INSIDE
Integrated EPICS IOC, SNMP, OPC-UA and Webservices and onboard Python script runtime.

MMS

MODULAR AND VERSATILE MULTICHANNEL HIGH VOLTAGE SYSTEM

The 6U Eurocassette standard based modular high voltage system is the iseg vendor specific multichannel standard. With a wide set of modules the MMS system provides the most advanced features in high voltage generation. Together with the browser based control and configuration server iCS iseg delivers cutting-edge solutions for high voltage applications.

Up to 10 slots and 480 channels per crate

Highest channel density to save valuable installation space

Best ripple and noise characteristics

Up to 30 kV, up to 40 W per channel

Interchangeable controller boards for networking and software control



EHS HIGH PRECISION
Versatile high precision HV module in multiple floating versions.



EBS
Bipolar 4 quadrant HV module with CFG.



EHR
High precision HV module with electronically switchable polarity for each channel

Dedicated development for several CERN projects



ESS
Single channel 2 quadrant HV modules with floating ground.

RENT NOW AT CERN ELECTRONICS POOL iseg-hv.com/cern/ep



SHR desktop device

NHR module in NIM-standard

All NIM NHR/NHS modules can like the other devices be **remote controlled** with the iseg software. Just connect it to an iCS-mini via CAN bus and off you go.

SHR/NHR

ULTRA PRECISE HIGH VOLTAGE SOURCE-MEASURE-UNITS

The SHR and NHR series provides up to 4 HV-channels, each with an independent voltage and current control and reversible polarity.

2 / 4 channels, 2 kV / 6 kV versions

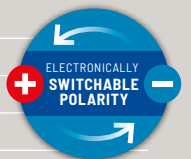
Electronically switchable polarity for each channel

6 kV channel with electronically switchable modes

USB / Ethernet* interface

Integrated iCS (ARM Linux server hardware) with onboard Python scripting*

*SHR-device only



Selected references:



QUESTIONS? ASK ERICH!



ISEG OFFICE AT CERN

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If you are interested in testing one of our power supplies, please get in contact with Erich to discuss availabilities.

