



SDS High Voltage is a French company which designs and manufactures High Voltage Power Supplies from 100V to 50kV, with power from 100mW up to 100W, with remote command and control optional. These products are designed and manufactured to be used in a wide array of professional domains where reliability, functionality, space saving and cost-effectiveness are essential to our customers' success.

SDS High Voltage is dedicated to serve its customers with standard and specific products to meet the needs of each customer.

Customers that depend on our products work in domains including laser, Cap charging, Pulsed power, Pulse generation, Test equipment, Electrostatic detectors, Mass spectrometers, Amplifiers and Piezos.

The products are available in various forms such as non-instrumented blocks, bench-tops and socket assemblies.

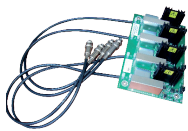
SDS High Voltage dedicates its technical know-how and experience to provide its clients with customized solutions.

We either build high quality subsets in series that will be incorporated into electrical and electronic equipments or we specially design and manufacture unique devices for your particular requirements. Indeed, from a large range of AC-DC and DC-DC high voltage standard products, our engineers are able to develop custom design meeting all specific requests and approvals into the industrial, medical, military, research and aerospace.

All information are available on our website at **www.high-voltage-power-supplies.co.uk**
For further information, or speak to a sales representative, please **call us on +33 (0) 1 84 23 11 10**
or contact us by e-mail at contact@sdshv.com.

Custom High Voltage Power Supplies

DAS Series - Quad high voltage converters board



The DAS series is a board housing for HV converters. These converters boards can receive SDS High Voltage standards or customs modules with a connection dedicated. These are fully protected against repetitive arcs and shortcircuits on the ouptput and protected against reverse polarity on the inputs. HV parts are potted with a silicone resin meeting UL 94 specifications. The applications are radioactivity detection, measurement and tests stands.

Product	Description	Input voltage	Output voltage	Output power	Available configurations
DAS Series	Quad high voltage converters board	15Vdc	0/-2.5Vdc	2.5W	As per customer's specifications



CCPS Series - Capacitors charger



This module is a high voltage power supply dedicated to capacitor charging, the output current is regulated to 100MA and the charging voltage is programmable by a switch on the front panel from 0 to 1000Vdc in 100V steps. The output is floating, i.e. the plus and minus terminals can be subjected to an offset voltage of +/-2000V with respect to earth, which allows the charger to be used on resonant LC circuits. It is installed in a 3U crates 24TE wide, equipped with two front panel displays for voltage and charging current, an end of charge LED and a residual charge in charge LED and a residual charge indicator LED when the mains is switched off. The application is the polarization of phototubes.

Product	Description	Input voltage	Output voltage	Output power	Available configurations
CCPS Series	Capacitors charger	Universal 85-264V + switch on rear panel	From to 1000Vdc adjustable	1.000W continuous	As per customer's specifications

GIPO Series / GIPO SAU Series - High-voltage pulse generators: Pockels cells drivers



The module is a high-voltage pulse generator, based on field-effect transistor technology, provide the remarkable feature of being introducible into lightweight and reduced-size obstruction cases. GIPO generators can produce pulses up to 5.5kV, with a rise time of just a few nanoseconds (generally 3ns), with an adjustable pulse length as short as 200ns and as long along as 30µs for charge capacitive loads. The GIPO is available either in block configuration or as a stand-alone unit.

Product	Application	Description	Output voltage	Transient	Available configurations
GIPO Series	Q switch	High voltage pulse generator (block config.)	-500V to -5.5kV	tr: 3ns typical on a load of 2pF	1 standard model
GIPO-SAU Series	Q switch	Stand-alone unit containing either 1 or 2 GIPO	-500V to -5.5kV	3ns typical on a load of 2pF	2 standard models

DSQ SAU Series - High-voltage pulse generators: Drivers for piezoelectrics



The module is a high-voltage pulse generator, based on field-effect transistor technology, provide the remarkable feature of being introducible into lightweight and reduced-size obstruction cases. The DSQ-SAU is dedicated to drive piezoelectric transducers, pockels cell or any other application equivalent to a capacitive load.

Product	Application	Description	Output voltage	Transient	Available configurations
DSQ SAU Series	Piezo driver	Stand-alone unit containing one GIPO-DSQ	-500V to -3.5kV	tr: 20ns tf: 100ns	1 standard model



PHO Series - Multi-channel phototube control box



This unit allows to polarize four ultra-fast planar photo-detectors by four dedicated channels. The generated high voltages (nominally 2.5kVP) are stabilized at 20ppm°/C. Each channel is controlled via a MODBUS/ TCP bus. The device comes in an OEM enclosure. The application is the polarization of phototubes.

Product	Description	Input voltage	Output voltage	Available configurations
PHO Series	Multi-channel photo-tube control box	24Vdc	2kVdc and 2.5kVdc, modular +/-100Vdc	2 possible configurations

PI Series - Ionic pumps power supplies



These power supplies are designed to supply and control ionic pumps of various types and capacities. Different models are available such as power supplies delivering 6 Watts or 60 Watts for output voltages, adjustable by potentiometer on the front panel, ranging from 0 to 6kV. They have a current control with a resolution of 1µA. Some models carry a backup battery to prevent power failure or to transport equipment. The device is integrated in a 19° 2U instrumented rack.

Product	Description	Input voltage	Output voltage	Output power	Available configurations
PI Series	Ionic pumps power supplies	230Vac 50 Hz	Depending on the model 6kV and 6 or 60Watts	Depending on the model 6kV and 6 or 60Watts	As per customer's specifications

CAL Series - Calibration equipment for high voltage probes



This equipment is a high voltage pulse generator characterized for frequency calibration of voltage probes for Direct Current Transmission System (HVDC) high voltage power distribution applications. The high voltage pulse is a first order signal with a rise time of 10µs and adjustable in amplitude from +1 to +30kV. The device is installed in a 19° 2U instrumented rack. The application is calibration of high voltage probes.

Product	Description	Input voltage	Output voltage	Output power	Available configurations
CAL Series	Calibration equipment for high voltha probes	Universal 85-264VAC	30kV	10µs	As per customer's specifications

DEP Series - Ionizer for medical device



These high voltage AC/DC power supplies are made for remediation in some environments using corona discharges. This space-saving regulated high voltage inverter is suitable for depollution applications in various systems using corona discharges. The applications are depollution, surface treatment and depolarization. There is a protection against overload, short circuit and arc.

Product	Description	Input voltage	Output voltage	Output current	Available configurations
DEP Series	High voltage DC/AC converter module	24Vdc ±2V	From 300 to 5500Vrms adjustable	1 mA nominal	2 standard models



CAM Series - High stability equipment for imaging



The custom high voltage and high stability power supplies are protected against micro-arcs and equipped with auto shut down (one has a crowbar switch). It has an enhanced protection against arc and short circuits. The application is streak cameras.

Product	Description	Input voltage	Output voltage	Output power	Available configurations
CAM Series	High stability equipment for imaging	24Vdc	From 0 to-15Kv	1.5W	As per customer's specifications

Racks Series - Instrumented high voltage power supplies



This category of modular rack, DC-DC and AC-DC, is designed to meet the specific customer needs. Inside take place our own standard modules or specifics one: High Voltage Modules adjustable, High Voltage Amplifier, High Voltage Charging Capacitors...The production times are short, the front and rear panels can be customized including the customer's brand name.

Product	Description	Input voltage	Output voltage	Output power	Available configurations
RACKS Series	1U to 3Ux 19" or less 1 to 8 channels	AC or DC	From 0-100Vdc to 0-50.000Vdc adjustable	From 100mW to 1.000W	As per customer's specifications

BTX Series - Instrumented high voltage power supplies - 2500V reference



This category of modular rack, DC-DC and AC-DC, is designed to meet the specific customer needs. The BTX Series is a 2500V bipolar reference, with +/-0.1% accuracy and TC 20 ppm/°C. It is an assembly of two MTA converters (positive or negative) and a highly stabilized loop which compensates for the self-heating of the converters. The loop is controlled by a very low TC. reference (8ppm/°C)

Product	Description	Input voltage	Output voltage	Output power	Available configurations
BTX Series	1U to 3Ux 19" or less 1 to 8 channels	AC or DC	From 0-100Vdc to 0-50.000Vdc adjustable	From 100mW to 1.000W	As per customer's specifications



To meet the need of each customer, SDS High Voltage can design your specific product with required specifications.

Product	Description	Input voltage	Output voltage	Output current	Available configurations
To be defined	HV DC/AC or HV AC/DC or HV DC/DC	To be defined	To be defined	To be defined	To be defined

Non contractual document. All specifications are subject to change without notice.

