

High Voltage - Simplified



Genvolt
high voltage power supplies

SPARKING OFF EXCELLENCE

Welcome to Genvolt India

Genvolt India is a subsidiary of Genvolt Ltd. United Kingdom. Genvolt is a global company who specializes in the High Voltage Engineering and its applications. We are highly experienced in the manufacture of wide range of high voltage power supplies, equipment and components that conforms to ISO9001/2008 and in compliance with various international standards.

Genvolt India Aims to provide a comprehensive solution to our customers for their High Voltage Technology products in various fields such as Defence, Industrial, Air pollution control, Research, Education, NDT etc.

Our equipment portfolio varies greatly and includes; high voltage power supply units, photomultipliers, large electron beam welding machines, capacitor chargers, laboratory, analytical, military and x-ray equipment.

Whatever your high voltage supply requirement, Genvolt has the technical expertise and experience to meet even the most demanding applications.

We endeavour to be a preferred partner with our customer by providing prompt technical and after sales service support locally.

Most Demanding Applications

- Laboratory research applications
- Air cleaning equipment
- Electrostatic liquid/oil cleaning
- Electrostatic precipitators
- Non-destructive testing X-Ray
- Electron beam welding machines
- Capacitor charging / testing
- Electron beam printing / 3D printing
- Dielectric / insulation testing equipment
- Electro-spinning
- Electrostatic applications
- Particle accelerators
- General high voltage applications
- Bespoke high voltage applications



Pegasus P600

General purpose 600 Watts
2U rack HV PSU with
voltage upto 50kV



71520 Model

15kV, 20 Watts general purpose
24V DC input module



7XX30

Upto 30kV, 30 Watts
low cost laboratory unit



8000 Series

Upto 70kV, 120 Watts
rugged modular PSU

We have hundreds of customers representing countless applications. Genvolt products can be configured to fit into so many different designs across so many applications.

The Genvolt Engineers have decades of experience in the high voltage power supply industry. Through detailed marketing analyses, customer surveys, and customer assistance with thousands of system designs, we've been able to sculpture standard products with most of the features, functions, voltage and power our customers need. Genvolt standard products can be used in many ways; sometimes a simple external circuit or operational configuration is all you need to solve a system problem. We've developed several circuits to help you get what you need. If you don't see a solution here that meets your needs, feel free to contact us.

Electrostatic Air Cleaning

Genvolt High Frequency Switch Mode power supplies for Electrostatic applications are an application specific product which are reliable and proven making them first choice to many air ESP OEMs.

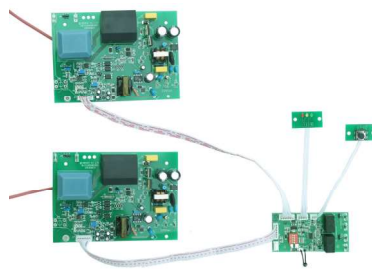
Genvolt has expertise to design and deliver products right from the smallest ESP to the Larger, high power ESP for Air cleaning.

With over 50 Thousand installations worldwide, Genvolt's AF0 range of High voltage power supplies are reliable and proven for Electrostatic Air and Oil Cleaning applications. Our products are used around the world by many OEMs in the field of Commercial Kitchen Exhaust systems, Fume extraction, Industrial Air / Oil Cleaning and other Electrostatic principal based applications.



AF01 Series

Up to 50 Watts, 12kV/6kV dual output robust air cleaning power supply



AF02 Series

8kV/4kV up to 40 Watts PCB units with intelligent controls



AF06/AF05 Series

Up to 60kV, 1kW remote controlled units with optional remote display unit

AF Range selection sheet

MODEL	VOLTAGE (kV)	POWER (W)	Key Features
AF01	7, 8, 9, 10, 11, 12, 8/4, 10/5, 12/6	20, 30, 40, 50	Hiccup mode, fault indication, change over contacts
AF01B	15, 18, 20, 22, 24, 26, 15/7, 16/8, 18/9	20, 30, 40, 50	Hiccup mode, fault indication, change over contacts
AF02B	6, 7, 8, 7/3.5, 8/4	5, 10, 15, 20, 40	Compact PCB power supply
AF02C (PCB Type)	6, 7, 8, 7/3.5, 8/4	5, 10, 15, 20, 40	PCB power supply with intelligent controls
AF04	7, 8, 9, 10, 11, 12, 8/4, 10/5, 12/6	100	Hiccup mode, fault indication, change over contacts
AF04B	8, 10, 12, 14, 16, 18kV, Dual output also available	150, 200, 250, 300	Output voltage tune control
AF04F	8, 10, 12, 14, 16, 18kV, Dual output also available	150, 200, 250, 300	0-5VDC output voltage & current readouts
AF05	14, 16, 18, 20, 22, 14/7, 16/8, 20/10	350, 450, 500	Analog remote control
AF06	14, 16, 18, 20, 22, 14/7, 16/8, 20/10, 25, 30, 35, 45, 50, 55, 60	600, 800, 1000	Optional remote touch screen control unit

High Power Electrostatic Precipitators

Genvolt Expertise in Designing Very High Frequency SMPS resulted in Development of High power ESP units. These units are reliable and efficient for Air cleaning and well accepted by our customers Globally. These power supplies operate on higher power efficiency with guaranteed filtration performance, providing adjustable pulse width to effectively inhibit anti-corona, the robust design of Genvolt power supplies along with extensive arc and short circuit protection allow operation in the most demanding environments.



ESP01 Series

4-12kW HV units for electrostatic Air cleaning



EPS Range

Up to 120kV, 240 Kilowatts robust units for cement & coal based power plants



Mercury Series

80–150kV, 150–1kW versatile units for specific needs

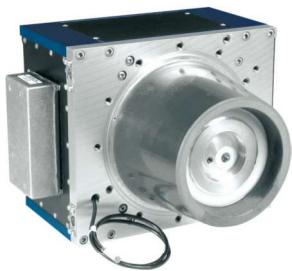
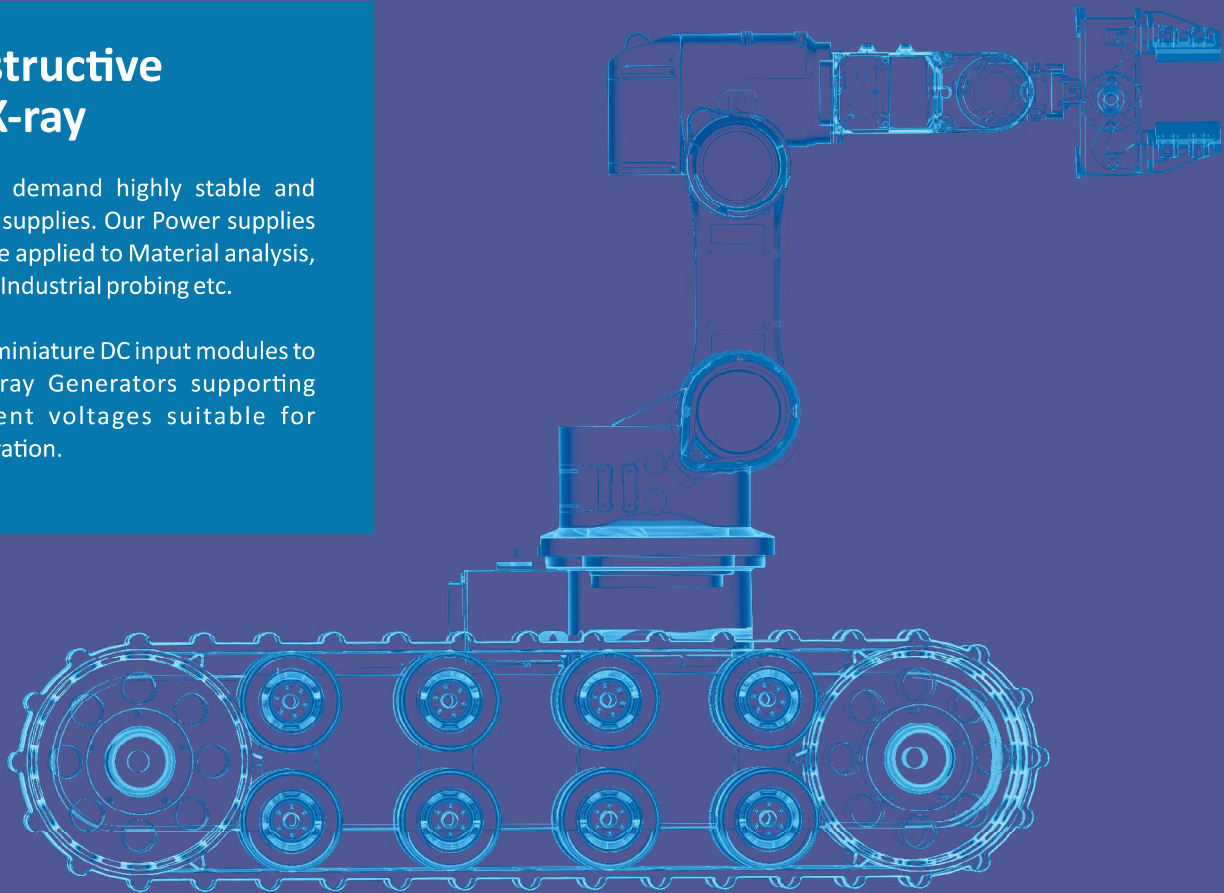
Technical lead over traditional T-R sets.

- Very compact size compared to the equivalent rating line frequency transformer-rectifier sets
- SMPS based sophisticated Genvolt products offers very less output ripple resulting in high efficient cleaning results
- Our products are packed with tight regulation control giving stable output even in the most industrial adverse conditions
- These products can be availed in multiple mounting options as they are comparatively less in weight and does not requires dedicated floor space
- Offers many advanced controls & monitoring features along with the customized smart interfacing solutions
- For further details & customization options please contact us

Non-Destructive Testing X-ray

Industrial X-ray demand highly stable and accurate power supplies. Our Power supplies are capable to be applied to Material analysis, Security checks, Industrial probing etc.

We make small miniature DC input modules to high power X-ray Generators supporting various filament voltages suitable for continuous operation.



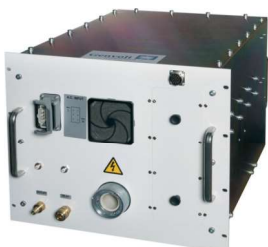
XR250 Range

DC input 125kV, 250 Watts
X-Ray unit for steel strip rolling mill



Pegasus Range

Up to 120kV, 2400 Watts
PSU with optional multiple interfacing solutions



Orion Range

0 to 60kV, 3kW high powered
water-cooled units for
sophisticated X-Ray needs

What is NDT?

Non-destructive testing (NDT) is the process of inspecting, testing, or evaluating materials, components or assemblies for discontinuities, or differences in characteristics without destroying the serviceability of the part or system. In other words, it is a process of detecting and evaluating flaws in materials.

Genvolt Products

We offer wide range of X-Ray power supplies compatible to various industrial X-Ray needs. The Genvolt products illustrates Genvolt's capability to produce innovative designs in response to challenging specifications.

Contact us to find a suitable product as discrete as your application can be.

Key Features:

- Power packed compact units
- Excellent rigid & reliability
- Highly efficient & superior output quality
- Very high voltages & high power outputs offered
- Optional integrated Bias & Filament supply outputs
- Wide controls & monitoring options
- Various remote controls & interfacing solutions
- Optional external remote control
- Operating temperature management by air or water

Capacitor Charging

Genvolt Capacitor charging power supplies uses a rugged IGBT based inverter running in resonant mode to achieve high efficiency and excellent ruggedness. The power supplies are designed to have a high tolerance to the noise generated by electrical discharge.

We supply our Capacitor chargers to world's most renowned and critical research institutes in the field of Atomic Research, defence research and Nuclear research.



5040 Range

1kJ/sec capacitor charging module ranging to 150kV



CCM400 Range

300 Watts up to 30kV front panel controlled modular series



Titan Range

120kV, 45kJ/sec High speed high power PSUs with PRFs as high as 250Hz



BANTAM

Up to 32kV, 150J/sec DC input remote controlled module

Features:

- Genvolt products are designed and developed to handle capacitor charging applications
- High charge & discharge rates help them to be applied on low to high PRF
- Special safety interlocks to suit capacitor loads
- PSUs are completely robust and reliable
- External controlling features are provided to operate units in remote conditions
- In high power chargers optical interfacing solutions provided

Research & Laboratory

We have Low Cost Laboratory units to highly sophisticated power supply units for Educational institutes and universities.

Genvolt has a long history to work with the world's most reputed universities and supporting them for their newer area of research activities.



LAB300-60KP

Up to 60kV, 30 Watts
general purpose high
voltage power supply



Aquila Range

Compact PSU ranging
to 50kV, 30 Watts



7XX30

0 to 30kV, 30 Watts
low cost laboratory unit



Pegasus P900 Range

General purpose 900 Watts
power supply with voltage
up to 50kV

We have our extended reach in the world wide research laboratories. In India Genvolt products are adapted widely in many research organization along with Indian Institutes of technology & sciences. These lab units are subjected to various fields of:

- Applied mechanics
- Applied science & engineering
- Bio-technology
- Bio-Chemical
- Polymer & process engineering
- Particle physics & many more...

General Applications

The power supply units are designed to produce a highly stable output, high efficiency and low ripple. The wide output voltage adjustment equipped many interfacing and operating solutions makes it suitable for wide usage in the fields of agriculture and other large scale electrostatic separation systems, particle accelerators, electron beam printing and so on. The power packed modules are designed to achieve high reliability in most adverse conditions resulting in being much sought after.



8000 Series

Up to 70kV, 120 Watts
rugged modular PSU



EB Series

Ranges up to 150kV, 60kW
electron beam power supply



Callisto Range

0 to 60kV, up to 15kW
general high voltage
power supply

Features:

- High stability
- High accuracy
- Low ripple
- Highly regulated
- Low temperature drift
- Smart interfacing solutions
- Remote control using multiple options
- Protections against over voltage, over current, arcs & short circuit & more...

Applications:

- Electrospinning
- Mass spectrometry
- Electron beam printing
- Electrostatic sputtering
- Electrostatic sprayers
- Electron beam welding / melting
- Corona treaters
- Electrostatic separation & many more...

High voltage components

The high voltage components from Genvolt including capacitors, resistors and connectors are designed to withstand the test of time. Thus, robust design, economical viability and super quality are common factors to all of them. They are highly stable and find applications in an array of applications including voltage dividers, test equipment, medical equipment, measuring equipment, oscillators and coupling circuits, just to mention a few. Needless to say, these components can all be tailor-made to suit your requirements.



DXU Range

High voltage ceramic capacitors up to 8000pF, 10kV to 50kV



CGG81 Range

High frequency power capacitors ranging up to 2200pF, 120kVA



RES100 Range

High voltage resistors ranges 50 Ω to 100G Ω , 30 Watts to 1000 Watts



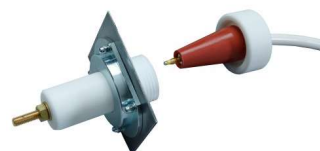
RES200 Range

Up to 200k Ω , 1kW highly stable HV resistors with impulse suitability as high as 500kV, 300A



XLCC Range

30kV high voltage connector set with or without HV cable



HV Connectors

60kV PTFE high voltage connector set with or without HV cable

Bespoke Services

Genvolt has a proven track record of producing innovative solutions within the field of high voltage engineering.

Whether you require high voltage power supplies, electron beam machines, capacitor chargers, laboratory power supplies, or x-ray equipment, we have the experience and expertise to design, develop and manufacture a tailor-made solution to best suit your requirement. In fact, many of our products are based on designs that were originally created to meet specific customer requirements. If you can't find a suitable high voltage power supply or component, we will call upon our vast engineering experience to deliver just what you are looking for.



Vulcan Series

Upto 200kV, 24kW specially designed electron beam / capacitor charger units



HV DC Generators

Custom built PSUs reaching output voltages as high as 400kV DC



HV Transformer / Rectifier

High voltage units outputting 10-50kV DC



Europa Range

Reversible PSUs ranging to 100kV, 100 Watts with extremely accurate output parameters

Features:

- Completely customized solutions suitable for specific requirements
- Very high voltage outputs can be achieved
- Higher power requirements can be met
- Single or dual polarity options
- Reversible polarity feature with easy access
- Multiple outputs as requirement
- Forced air / water cooled provision
- Traditional oil sealed transformer-rectifier sets with high operating frequency
- Various remote control options using analog or digital interfacing
- Different smart interface solutions to meet specific requirements

- Genvolt products are adapted globally



FACTORIES:



Genvolt
high voltage power supplies

India Office:

Genvolt India Private Limited, UG-3, Ozone Center, Faridabad, 121007 (Haryana), India

Email: supportindia@genvolt.co.uk | Web: www.genvolt.in

UK Office:

Genvolt, New Road, Bridgnorth, Shropshire, WV16 6NN, United Kingdom

Web: www.genvolt.co.uk



RESEARCH AND DEVELOPMENT:

- **Genvolt Ltd**
Unit 9/Netherton Workshops/New Rd, Bridgnorth WV16 6NN, United Kingdom

FACTORIES:

- **Genvolt Ltd**
Unit 9/Netherton Workshops/New Rd, Bridgnorth WV16 6NN, United Kingdom
- **Boher High Voltage Power Supplies Ltd (Genvolt China)**
No. 79, Yandangshan Road, Suyu District, Suqian City, Jiangsu, China