

Valstat® VC series electrostatic charging electrodes are designed to be used with +20 kV, +30 kV and +60 kV. Valstat® PC series high voltage generators.

Valstat® VC series static charging electrodes are available in two variants; point static chargers and linear static charging bars. Point static chargers are available with one to three static charging points, and static charging bars are available in standard lengths up to three metres. Both are supplied with high voltage cable enclosed in flexible conduit.

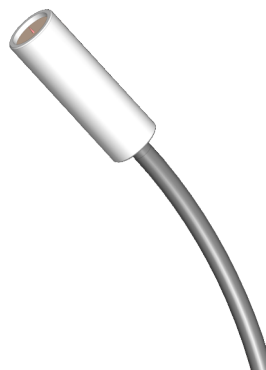
The Valstat® VC series charging electrodes and Valstat® PC series high voltage generators together provide a compact, sturdy and efficient system for generating electrostatic charges in a variety of industrial applications. These charges are most useful to enhance production by creating a temporary bond / attraction between two materials, one of which has to be an insulator.

Point charging electrodes are suitable for applications that require localised charging, like edge pinning, in-mould labelling etc.

Charging bars are used to generate electrostatic charges in linear applications like sheet stacking, pinning tacking etc.



Linear charging



Point charging

Features:

- Engineered plastic enclosure, with epoxy encapsulated parts
- Point charging can be made up to 3 electrodes. Customisation is possible
- Standard length for bars is 3000 mm. Custom made higher lengths are possible
- 3 metres interconnecting HV cables
- Easy installation and start up
- No maintenance required, except for periodic cleaning
- Tested for safety under stringent conditions

Valstat® PC series high voltage generators are designed to provide HV DC supply to Valstat® VC series static charging electrodes and other systems. They give stable high voltage DC output even under severe conditions.

Together, they form an ideal solution for creating controlled level of static charges that provide temporary bonding between materials.

With precision becoming extremely important in production processes, Valstat® charging system provides a simple solution for a range of electrostatic charging applications in industry. These include:

Applications:

- Pinning
- Stacking
- In-mould labeling
- Ribbon tacking
- Roll to roll transfer
- Plastic bag making
- Chill tack system
- Flocking
- Web moisturising
- Wood and laminates

Predefined positive or negative supply is available from the charge generator. The variable output helps in achieving charging auto-trip feature in order to ensure safety and to suit most of the operational requirements.

Specifications:

General

- Input power: 24 V DC +10% or 240 V AC, 50Hz
- Output: 0- 20kV, 2 mA
 - 0- 30kV, 0- 1 mA
 - 0- 30kV, 0- 4 mA
 - 0- 60kV, 0- 2 mA
- Polarity: Predefined positive or negative DC
- Construction: MS fabricated powder coated enclosure
- Dimensions: 18" x 12" x 8" (H x W x D)
- Ripple factor: 0.1% p-p of max.output voltage
- Ambient temperature: +5°C to +40°C
- Ambient humidity: Max 80% RH, non condensing
- Weight: Approximately 5 kg

Output and Interface

- HV output: Two high voltage output terminals
- Controller: PLC controller unit with keypad based operator pane
- Operating modes: User selectable voltage or current mode
- Limit functions: User selectable current or voltage limitations
- Interface: External analog interface available
- Communication protocol: Modbus RS 485 etc,

