

Valstat®

VR20X ATEX certified static charge eliminator

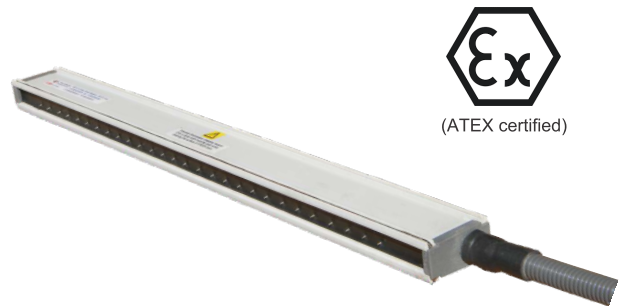
Valstat® VR20X Ex-proof ATEX certified AC static charge eliminators are efficient static eliminating bars, designed for neutralising electrostatic charges from fast-moving plastic films, paper and other non-conductive substrates (webs) in hazardous environments.

A row of electrodes, provided along the active length of the bar, generate ions of both polarities, ensuring that positive and negative charges on the substrate are quickly and effectively neutralised.

Valstat® VR20X barbars powered by Valstat® PS74S high voltage AC (HV AC) power sources. Together, they provide compact, sturdy and reliable means for removing electrostatic charges in many industrial applications.

Features:

- Certified for use in hazardous environments
- Shock-less and spark-free
- Safe even when power supply is off; by passive discharging through electrodes
- Ease of installation through sliding brackets for mounting
- No maintenance required, except for periodic cleaning



Valstat® PS60C is a CE certified HV power supply system used with Valstat® VR20X static eliminating bars. The Valstat® PS60C power source needs to be positioned outside the hazardous location and connected to the Valstat® VR20X static eliminating bars, which can be positioned in hazardous areas.

Together, the PS60C and VR20X remove static charges from moving webs and objects efficiently and safely.

Features:

- Very low power consumption: 40VA
- 230V, 50/60 Hz, single phase input
- Stable HV output, with inbuilt current limit
- Three HV output connectors for VR20X bars
- Easy installation and commissioning
- Mild steel fabricated, powder coated enclosure
- Compact, dustproof and rugged construction



Technical specification of VR20X:

Input	HV cable, supplied as an integral part of the bar. Supply to be from Valstat® PS60C power source only
Connection to PS60C	Plug-in type HV connector, which is an integral part of HV cable of VR20X bar
Cable	2 meter HV cable in plastic conduit as a standard scope of supply. A capital of additional length on prior request (from 0.5 m up to 10 m)
Ambient temperature	0 to 50°C
Ambient humidity	Up to 70% RH, Non-condensing
Construction	Engineering plastic enclosure with epoxy encapsulation
Discharge electrodes	Specially alloy
Mounting	Sliding brackets provided as a standard scope of supply
Weight	About 1 kg per meter length
Effective length (EL)	EL + 80 mm
Overall length (OL)	15 mm to 4410 mm. Options available for higher lengths
Mounting distance	10 mm to 50 mm from substrate (25 mm optimum distance)
Maximum speed (1000 mpm) of target substrate	Up to 1000 mpm
Power Source	Use only with Valstat® PS60C power source
High voltage connection	6000 VAC
Operating voltage	6000 VAC/ 50 Hz
ATEX approval	Baseefa16ATEX0127X
ATEX marking	II2G IIA T6 Gb Ta 0°C to +50°C)

Technical specification of PS60C:

Input supply	230V AC + 10%, 50/60 Hz, single phase. Earth connection is mandatory
Input connection	User must use this product with certified European power cord (3 core x 0.75 Sq.mm), plug and appliance coupler
Appliance inlet	C14 acc. to IEC 60320
Ambient temperature	0 to 50°C
Ambient humidity	Up to 85% RH, Non-condensing
Consumption	Less than or equal to 40VA
Input fuse	Replaceable 20 mm glass fuse, 2 A / 250 VAC
Output connections	3 nos. plug in type HV connections
Loading capability	Maximum three Valstat® VR20X static eliminating bars can be connected. Total length of connection bars plus HV cable should not exceed 15 metres
Nominal output voltage	6000 VAC
Output current	4 mA short circuit current
Enclosure	Sheet metal, powder coated
Weight	About 3.3 kg
Earthing	External ground terminal provided on housing
Selecting of static eliminators	Valstat® VR20X AC static eliminating bars can only be connected with PS60C
Dimensions	290 mm x 140 mm x 142 mm