

# Valstat®

## VR20X Static Charge Eliminator

**Valstat® VR20X** static charge eliminators are highly efficient static eliminating bars, designed for neutralizing electrostatic charges from fast-moving plastic films, paper and other non-conductive substrates (webs) in explosion-prone environments.

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

Valstat® VR20X bars are powered by Valstat® PS60C high voltage AC (HV AC) power sources and are a compact, sturdy and efficient electrostatic charge removal system.

### Features

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



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

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

### Features

- Very low power consumption (less than 40 VA)
- 230 V, 50 / 60 Hz, single phase input
- Stable HV output, with inbuilt current limit
- Three HV output connectors for VR 20 X bars
- Easy installation and commissioning
- Mild steel fabricated, powder coated enclosure
- Compact, dustproof and rugged construction



### Technical Specifications of VR20X

Input	HV cable, supplied as an integral part of the bar. Supply to be from Valstat® PS60C power source only.
Connection	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. Length variants 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	Special alloy steel
Mounting	Standard sliding brackets provided
Weight	1 kg per meter length approx.
Effective length (EL)	EL + 80 mm
Overall length (OL)	15 mm to 4410 mm separate options are available for higher lengths
Mounting distance	10 mm to 50 mm from substrate (25mm optimum distance)
Maximum speed (MPM) of target substrate	Up to 1000 MPM
Power source	Use only with Valstat® PS60C power source
High voltage connection	6000 V AC for PS60C
Operating voltage	6 kV AC 50 Hz
Short circuit current per pin	Max 0.042 mA
ATEX approval	Baseefa 16ATEX0127X
ATEX marking	Ⓔ II 2 G IIA T6 Gb (Ta 0°C to +50°C)

### Technical Specifications for 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 (3x 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
Power	40 VA
Input fuse	Replaceable 20 mm glass fuse, 2 A / 250 VAC
Output connections	3 nos. plug in type HV connections
Loading capability	Maximum of three Valstat® VR20X static eliminating bars can be connected. Total length of connected bars plus HV cable should not exceed 15 metres
Nominal output voltage	6000 VAC for PS60C
Output current	4 mA short circuit current
Enclosure	Sheet metal, powder coated
Weight	Approx. 3.3 kg
Earth	External ground terminal provided on housing
Selection of static eliminators	Valstat® VR20X AC static eliminating bars can only be connected with PS60C
Dimensions	290 mm x 140 mm x 142 mm

Manufactured by



An ISO 9001:2015 Certified Company

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