



PERFECT FINISH – PAINTED BY THE SPECIALIST.

RHS-310p and RHS-510p

High voltage supply with Performance Level d (PLd)



HV generator RHS-310p



HV generator RHS-510p

The high voltage generators of the series “RHS-310p” and “RHS-510p” are a compact all-in-one high voltage power supplies for electrostatic applications.

The wiring between the HV controller and the high voltage producer is eliminated completely. The installation costs for these intelligent high voltage supply system is reduced to a minimum.

Only a 24V supply and a ProfiNet connection are required for operation. The installed micro controller enables a very precise and fast control of the HV output voltage.

With fast processors directly built in the high voltage generators improved control and evaluation functions were realized. Especially for robot use a direct rollover detection has been developed that avoids unwanted shutdowns in the process.

Inside the RHS-310p and the RHS-510p are the HV generator, HV controls and a residual energy monitoring system all combined into one device. The conventional external HV control is completely omitted.

Latest version devices also provide performance level d for residual energy monitoring. These new devices are recognizable by their designation, due to the addition of: ISO 13849-1:2008 Category 3 PLd.

The high voltage generators RHS-310p and RHS-510p has separate 24V supplies for the CPU and for HV generation.

Thus, communication via the bus can be maintained, even if the energy supply of the HV generator is disconnected, for example to free access to the high voltage carrying parts.



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Technical data

High voltage generator RHS-310p and RHS-510p with performance level d (PLd)

	RHS-310p	RHS-510p
Power supply:	Controller: 24 V DC max. 250 mA Power part: 24 V DC max. 2 A	Controller: 24 V DC max. 250 mA Power part: 24 V DC max. 4 A
Output voltage:	100 kV	100 kV
Output current:	300 μ A	800 μ A
Ambient conditions:	+5 to +40°C max. 70% r.H.	+5 to +40°C max. 70% r.H.
Storage temperatures:	-20 to +70°C	-20 to +70°C
Dimensions:	295 x 170 x 40 mm	295 x 170 x 50 mm
Weight:	approx. 3 kg	approx. 4 kg
Protection class:	IP 65	IP 65
HV connection:	Anode tube 250 mm deep 4 mm socket HV cables dry-pluggable	Anode tube 250 mm deep 4 mm socket HV cables dry-pluggable
Bus interfaces:	CANopen, ProfiNet, EtherCat	CANopen, ProfiNet, EtherCat, Ethernet IP
Designation:	Ex II 3G/D T6 X Ex II 2G/D T6 X (in preparation)	Ex II 3G/D T6 X Ex II 2G/D T6 X (in preparation)
Performance Level:	d	d