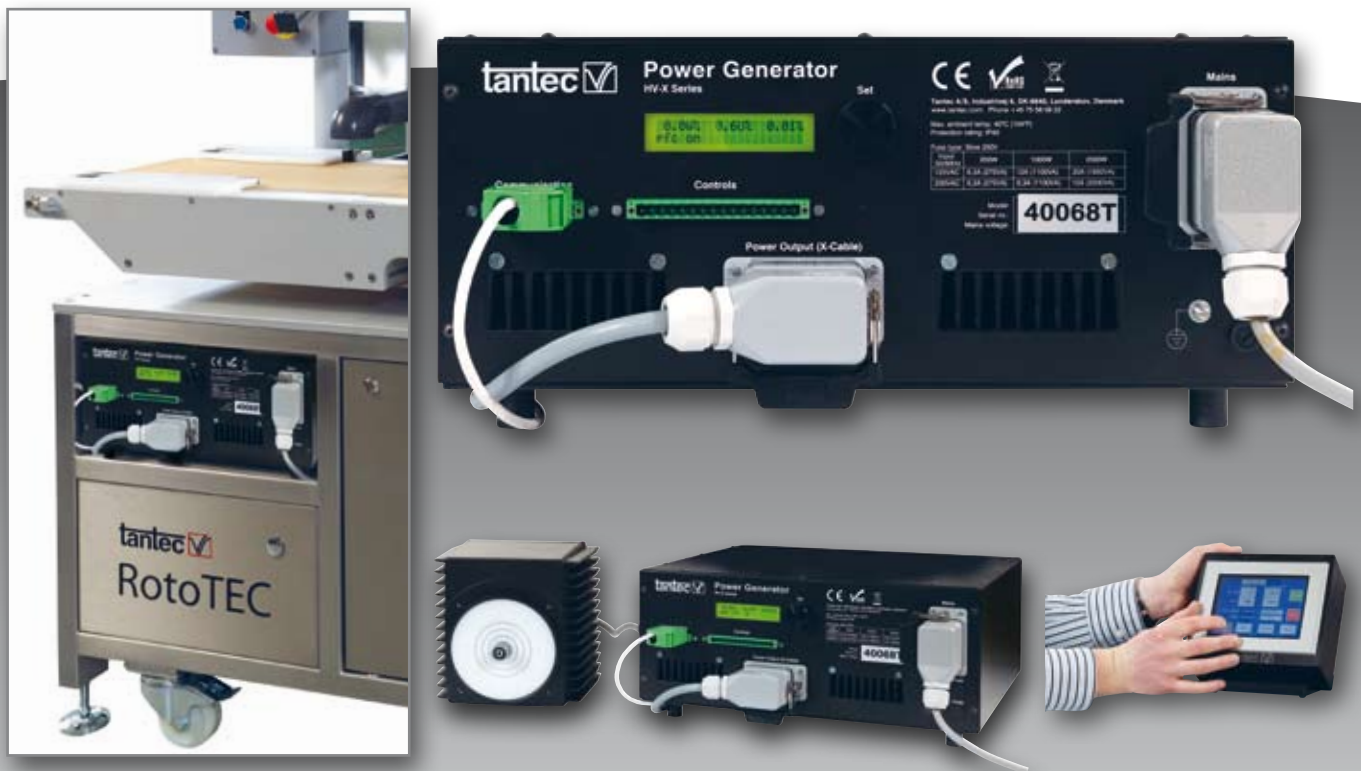


Product Information

HV-X Plasma & Corona Generator Series



POWER GENERATORS & TRANSFORMERS

For Vacuum Plasma and Corona Treaters

Tantec Power Generator HV-X is a new series of advanced Corona and Plasma power supplies, versatile for stand-alone surface treaters or as a fully integrated treater component in automated lines built by OEM's.

For stand-alone treaters the HV-X series is either controlled by an operator interface control with a 5.7" graphic touch display including a built-in PLC with 16 inputs and 16 outputs and RS485 Modbus port for data management or via a hard wired PLC interface.

For OEM's the standard RTU 4-Wire Modbus control offers a unique communication platform. Profibus, CANopen and others are optional and require a separate protocol converter to provide instant bus connectivity, i.e. Anybus Communicator.

Generator HV-X02, HV-X10 & HV-X20

HV-X Generators are available with 200, 1000 and 2000 Watt power output, and operate with 17 different high voltage transformers in configurations ranging from 2kV up to 80kV output voltage.

This extensive span provides surface treatment solutions for all products, regardless of part size, shape or capacity.

TECHNICAL DATA

Control modes:

Simple mode...

Modbus, Profibus, Canbus...

Operator Interface ...

PLC Configuration...

Other features:

Output discharge control..

Watt Density Control...

Advanced treatment...

Electrode Matching...

TechnicalData

Plasma & Corona Treaters

glueing bonding coating adhesion adhesion coating bonding bonding glueing adhesion

Control modes:

The microprocessor controlled HV-X series includes four selective control modes:

Simple mode:

Only the very basic parameters can be adjusted using the knob and the LCD display on the front panel

Modbus (Standard):

Full parameter controlling incl. setting, storing, verification and surveillance of all parameters (Profibus, CANopen and other bus controls are optional)

Operator Interface Control, Tantec Remote-X. (Optional):

Full parameter controlling incl. setting, storing, verification and surveillance of all parameters

PLC Configuration (Standard):

Via main machine PLC or similar central control the most important parameters can be controlled and adjusted

Other features:

Output discharge control,

either Voltage or Power Limitation

Watt Density Control,

based on parts/min., meter/min. or m2/min. (Bus/Operator Interface Control mode only)

Advanced treatment

timer with 5 modes, 0.02-60 seconds

Electrode Matching,

70, 80, 90 and 100%

Technical Specifications	HV-X02	HV-X10	HV-X20	HT-Transformers
Mains voltage & frequency	100-240VAC 50/60Hz	100-240VAC 50/50Hz	100-240VAC 50/50Hz	400 V
Output voltage/power	Max. 400 Vp 0-200 Watt	Max. 400 Vp 0-1000 Watt	Max. 400 Vp 0-2000 Watt (110 V: Max. 1500 Watt)	1 – 40 kV (17 types) 0-2000 Watt
Power consumption	300 VA	1200 VA	2150 VA	0 - 2000 Watt
Ramp up time	5-30 ms, depending on power load	5-30 ms, depending on power load	5-30 ms, depending on power load	5-30 ms, depending on power load
Shut down time	<1 ms	<1 ms	<1 ms	<1 ms
Dimensions in mm (LxWxH)	430 x 470 x 200	430 x 470 x 200	430 x 470 x 200	210 x 164 x 218 (Dry) 242 x 242 x 267 (Oil)
Weight in kg	16,5	16,5	18,5	6 – 8 kg, depending on type of transformer
Operator Interface Control (Optional)	5.7" STN color touch display Ports: (1) USB - (1) Ethernet - (1) Serial RS485	5.7" STN color touch display Ports: (1) USB - (1) Ethernet - (1) Serial RS485	5.7" STN color touch display Ports: (1) USB - (1) Ethernet - (1) Serial RS485	N/A
Bus communication system	Standard: RTU 4-Wire Modbus, 57.6Kbaud, 8bit. Optional: CANopen/Profibus and others	Standard: RTU 4-Wire Modbus, 57.6Kbaud, 8bit. Optional: CANopen/Profibus and others	Standard: RTU 4-Wire Modbus, 57.6Kbaud, 8bit. Optional: CANopen/Profibus and others	N/A
Regulation compliance	CE – RoHs - WEEE	CE – RoHs - WEEE	CE – RoHs - WEEE	CE – RoHs - WEEE

tantec 