

**TECHNICAL DATA**

→ Output power range	100J/s – 20000J/s – please refer to the detailed table for models
→ Output voltage range	2,0kV – 65kV – please refer to the detailed table for models
→ Output current range	15mA – 20A – please refer to the detailed table for models
→ AC input	Up to 800J/s nominal power: 230V ± 10% 47Hz – 63Hz for 1600J/s: 400V ± 10% 47Hz – 63Hz, 3p  230V ±10% 47 - 63 Hz or 400V ±10%, 3-phase, 47 - 63 Hz, depending on the type, see type label. Overvoltage category II according to IEC664. N-connection and PE (non-fused earth) always necessary! For devices with high leakage current required PE+N.
→ AC input connector	At plug-type connections: performance according to - IEC 60320-C13/14 until 400J/s - IEC 60320-C19/20 800J/s - For 2800W and higher: 3phase cable connect
→ Protection	Open/short circuits, arcs/ flashover, overtemp
→ Efficiency	Approx. 90%
→ Output polarity	Positive or negative, polarity reversal switch as option
→ EMC	EN61000-6-1 and EN61000-6-3 (single-phase mains connection) EN 61000-6-2 and EN 61000-6-4 (two- and three-phase mains connection)
→ Output isolation	The "0V" is connected to PE (earth) Current feedback is carried out via the shield of the output line (preferred)
→ Output control	Continuous adjustment/setting by front panel 10turn-potentiometers with precision scale; the adjustment knob can be locked; fine potentiometer available as option
→ Setting range voltage and current	Voltage: with ten-turn potentiometer or with optional interface appr. 0.1% to 100% from nominal value Current: with ten-turn potentiometer or with optional interface appr. 0.1% to 100% from nominal value
→ Set point resolution	±1 x 10 <sup>-3</sup> from nominal value with potentiometer on front panel With optional interface: 16 bit or better please refer to our datasheet for interface ±1 x 10 <sup>-5</sup> from nominal value with fine potentiometer on front panel
→ Reproducibility of the charging voltage with respect to the rated value	For ±10% mains voltage variation: < ±1 x 10 <sup>-4</sup> over 8 hours under constant conditions: < ±1 x 10 <sup>-3</sup> within the temperature range: < ±2 x 10 <sup>-4</sup> /K for repetition frequency of <10Hz: < ±1 x 10 <sup>-3</sup> for repetition frequency of >10Hz: < ±1 x 10 <sup>-2</sup>
→ Repetition frequency	Maximum 10Hz, optional up to 100Hz
→ Output	<100ms...500ms for changes of output voltage from 10% to 90% resp. 90% to 10%
→ Ripple of charging current	Max. 10%pp from nominal value
→ Ambient temperature	0°C to +40°C operating
→ Storage temperature	-20°C to +50°C
→ Humidity	Max. relative humidity 80% until 31 °C, linear decreasing until 50% relative humidity at 40 °C
→ Degree of pollution	1
→ Protection IP Code	IP 20
→ Cooling	Air/forced cooling depending on output power
→ Operation altitude	Operating: ≤ 6,500ft (2000m)

→ HV output connection	Mating HV connector and 3m cable supplied
→ HV insulating medium	Outputs ≤ 10kV are air insulated, ≥ 12,5kV use solid dielectric silicone encapsulation
→ Front panel	Voltage and current ten-turn potentiometers, mains switch, HV ON/OFF switch, DVM's for voltage and current
→ Voltage and current display	4 ½ digit DVM for voltage and current, range ±20000
→ Status display	LEDs for constant voltage, constant current, set value limitation active, setting of programming switch, Output ON, polarity, overtemperature
→ Possible options	<ul style="list-style-type: none"> <li>→ Analog programming</li> <li>→ Analog programming, floating</li> <li>→ Computer Interfaces – IEEE 488, RS 232, RS 422, Profibus DP, LAN, USB (more on request)</li> <li>→ Polarity reversal switch available up to 1600J/s (by request for higher powers) Please specify the output polarity, when ordering without polarity reversal switch.</li> <li>→ Interlock</li> <li>→ Fast discharge of the output (Dump switch) -</li> <li>→ Higher repetition frequency</li> <li>→ Display with sample &amp; hold feature for higher repetition rate</li> <li>→ Higher stability and better reproducibility</li> <li>→ Roller blades for cabinet units</li> </ul>
→ Optional digital interface <i>(Only one digital interface possible)</i>	<p>Probus V Interface:</p> <p>LAN, TCP/IPv4 10/100Mbit LAN interface with RJ45 connector. Configurable via web interface and software. Refer to: <a href="https://www.lantronix.com/products/xport/#tab-features">https://www.lantronix.com/products/xport/#tab-features</a></p> <p>USB: USB interface with TYP B connector. Works easily as Virtual Com Port (Baudrate: 115200 bit/s).</p> <p>IEEE 488: Serial interface with Baudrate 625000 bit/s.</p> <p>RS 422: Serial interface with Baudrate 9600 bit/s basic setting, can be higher depending on hardware</p> <p>RS 485: Serial interface with Baudrate 9600 bit/s basic setting, can be higher depending on hardware</p> <p>RS 232: Serial interface with Baudrate 9600 bit/s basic setting, can be higher depending on hardware</p> <p>LAN: Serial interface with Baudrate 230400 bit/s</p>
→ Weight	please refer to the detailed table for models
→ Warranty	2 years, outside of Germany without transport and travel costs Option to extend with surcharge

**Please do not hesitate to contact our sales team for all further questions:**

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**WE ARE LOOKING FORWARD TO GIVE YOU SUPPORT.**