



Eltex POWER CHARGER – A new generation of high-voltage generators

Higher quality, less energy consumption, faster production thanks to fewer disruptions, less downtime and less spoilage. Electrostatic charging does not always have negative consequences; when used for specific purposes it is downright useful in many areas. It is great to see that Eltex is setting new benchmarks in charging technology.

The new POWER CHARGERS from Eltex will become available in April 2018. They cover a variety of power levels and charging applications. They are operated with a supply range from 24 V DC or a supply voltage ranging from 85 V – 264 V AC depending on the design. The output is 75 or 150 watts. The generators are controlled using a membrane keyboard or an integrated touch panel available as an option. POWER CHARGERS can be operated as analog devices or over digital fieldbus interfaces. Control through CANopen and ModbusTCP will be available at launch. The modular system is ready to integrate additional fieldbus standards.

Users see reduced costs and less space usage thanks to an integrated discharge unit that simplifies control within the process at the same time. Using the Eltex Connected Control touch-based monitoring control system, multiple generators can be managed from a central location.

Optimizing processes thanks to smart control

An innovative software concept enables smart control of the high voltage. The software reliably detects fluctuations due to load changes, compensates for them and ensures high voltage start-up times in milliseconds. The software detects electrical arcs early. Users have the opportunity to adjust the sensitivity to the respective process. Integrated memory records the operating states of the POWER CHARGER. A new addition now also logs user-side changes to parameters. This lets users find the perfect match between generator settings and their processes.

Hardware and user protection enhanced

In addition to a variety of protective devices on the inside of the generator, several features protect the high-voltage output from excess current and voltage. This extends the service life of the control system and parts generating high voltage. Automatic power derating adjusts the generated voltage or current to the configured operating mode. Depending on the equipment variant, an innovative pollution monitoring system for the connected bars provides even greater process reliability.

User safety has been re-examined during the development of the POWER CHARGER. The generator will also be available in performance level D in the future. An entirely new plug system enables simple, secure contact with the inserted bars. Continuous refinement is bringing hardware and user protection to a higher level with each step.

An overview of the whole: Applications ...

The Eltex POWER CHARGER is ideal for all charging applications. Targeted charging, for example, enables the precise creation of foil layers during laminating and bubble-free surfaces, even when working at a rapid pace. Work on reelers is possible without any adhesive tape; the web can be secured precisely at the reel core. Proper use of charging components supports edge-to-edge winding of foils.

... and complete solutions

In many applications, a combination of both charging and discharging is useful and relevant to safety. The positive effect of charge buildup at one spot can cause problems for downstream processes. This is why it is important to always look at the complete production workflow when integrating charging components. As your technical contact partner, Eltex has 65 years of experience with a high level of specialist knowledge and we work with you to determine the most efficient solution for your applications. Matched charging bars and a variety of discharge options round out the POWER CHARGER.

Different distances, speeds, charge levels and required residual charge in machines require a variety of discharge parameters. This is why Eltex offers a wide variety of discharging bars and power supplies. Distances between 10 and 1,500 millimeters can be covered at production speeds of more than 15 m/s using the right equipment chosen from passive RG52 bars, proven R50/R51 AC bars, SDS and RX3 DC bars and the new flexION R60 with patented spring tips.

**Features:**

- > Smart software control system
- > 30 kV or 60 kV* output voltage
- > 24 V DC or 85 V – 265 V supply voltage
- > 75 W or 150 W power
- > Automatic power derating
- > Analog interface
- > LED status display
- > UL certification*

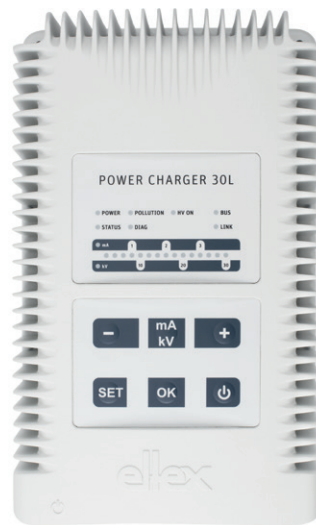
Optional

- > Touch-Display*
- > Fieldbus interfaces
- > Performance level D*
- > Configurable arc detection*
- > Access recording
- > Integrated discharge unit*

*Expected availability to begin mid-2018



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The new POWER CHARGER 30L



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All of the discharging bars

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About Eltex:

Eltex Elektrostatik GmbH, founded in 1953 in Weil am Rhein, Germany, is today the world's leading manufacturer of electrostatic systems. Over its successful history over more than 60 years, the innovative company's intelligent solutions have become a prominent fixture in numerous branches of industry. A global presence is provided by an international sales network of 50 agents.

You can find more information on Eltex at www.eltex.com or by contacting Mr. Marc Rechberger, Head of Sales for Static Control, marc.rechberger@eltex.de.

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