

## Charge power 20kJ/s Rack mount

AC-HVDC  
capacitor chargers 

The HCK20K0 series are stable DC power supplies, designed specially to meet the requirements of capacitor charging and capacitor conditioning. They feature a robust output resistor to be able to withstand the demands of a pulsed load. The control circuit is designed for fast transitions from constant current to constant voltage operation.

The equipment is suitable for both continuous and pulsed charging, this is achieved using an adjustable constant current without overshoot. Capacitors with a resistive component are also suitable as loads. Usually, an external protective resistor is not required. It is, however, recommended for applications with very high levels of stored energy.

The specified maximum charging power is achieved when charging from zero volt (0) to the rated voltage. The HCK series can operate in circuits where the load capacitor is fully discharged with each pulse, or in circuits where the load capacitor is only partially discharged with each pulse. The charging process can either be continuous or triggered using the external trigger input.

### Features

- ▶ Output voltages 0-2kVDC to 0-65kVDC
- ▶ 3 phase AC input
- ▶ Suitable for continuous or trickle charging
- ▶ Continuous or external triggered charging mode selectable
- ▶ Charging takes place with adjustable constant current without overshooting
- ▶ End of charge signal, when the final voltage is reached via LED and potential-free contact
- ▶ Repetition frequency typical <10Hz
- ▶ Multi-function control panel with user friendly interface
- ▶ Digital and/or analog interface option
- ▶ Manual voltage and current control with digital display
- ▶ Set-point display via a button
- ▶ Set-point adjustment possible with disabled output
- ▶ Push-button switch for output voltage
- ▶ Adjustable overvoltage limit
- ▶ CE marked, EN61010-1 safety compliant
- ▶ Short circuit & arc protection
- ▶ 2 year warranty

### Benefits

- ▶ Provides maximum device control & flexibility
- ▶ Safe operation ensures maximum protection to the power supply
- ▶ High voltage release included for safe operation at high voltage output
- ▶ User friendly controls combined with simple terminal software gives greater flexibility



### Applications



- ▶ Capacitor charging
- ▶ Capacitor conditioning
- ▶ Particle accelerator
- ▶ Pulsed applications
- ▶ Material crushing
- ▶ Cable testing
- ▶ Electromagnetic fields
- ▶ Renewable energy

Available on request. Please click on the contact us link below to discuss your requirements and get further information about options and modifications.

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