

A detailed 3D CAD model of a power supply unit, rendered in a light blue wireframe style. The model shows various components including a transformer, capacitors, and cooling fans, all arranged in a complex, multi-layered structure. The background is a solid teal color with a subtle grid pattern.

SCHIEDERWERK

A stylized graphic of a circuit board, rendered in white lines on a teal background. The lines represent traces and components, creating a complex, interconnected pattern that suggests advanced electronics and digital technology.

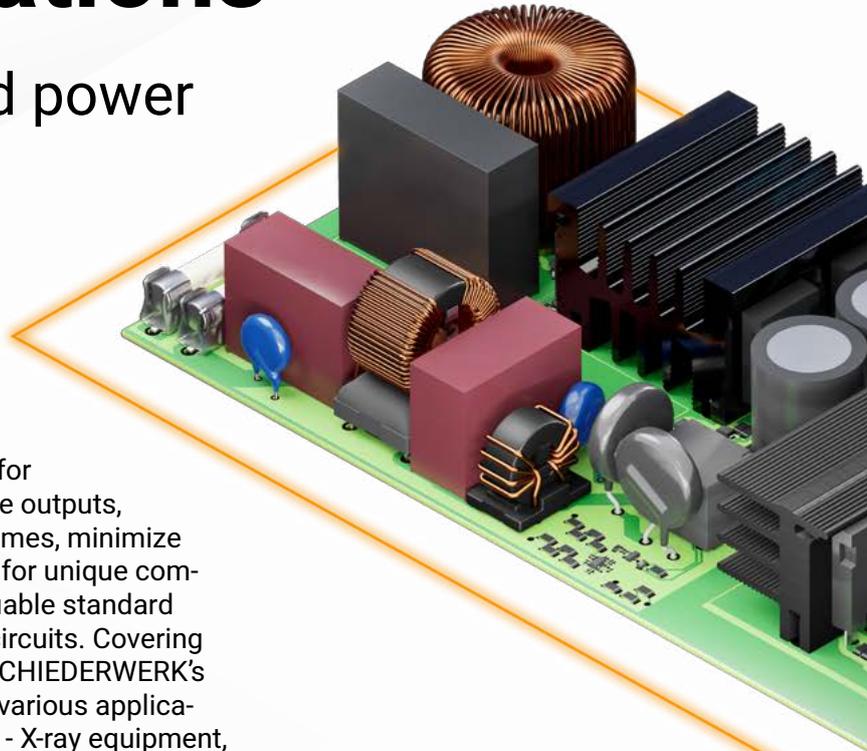
CUSTOMIZED POWER SUPPLIES

From concept and virtual
design to solution.

Accelerate & Enhance Your Innovations

Using our advanced power design platform.

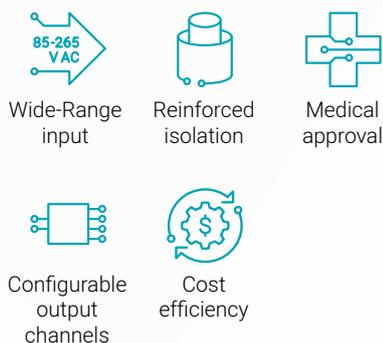
With our innovative virtual design platform for modulated power supplies with configurable outputs, you can significantly reduce development times, minimize costs, and lower risks. The platform allows for unique combinations of pre-developed EN-60601-certifiable standard modules with complex, customer-specific circuits. Covering a power range of up to 3.5 kW per device, SCHIEDERWERK's advanced power design platform supports various applications in the medical field as - among others - X-ray equipment, ultrasound devices and battery-powered equipment.



Your Advantages

- Accelerated development cycle
- Cost-effective development
- Minimized risk in development
- Optimized product pricing
- Pre-tested and certified solutions
- Complete design flexibility

Key Features



Benefit from Modular Power Supply

A modular power supply solution consolidates all necessary supply voltages, an optional battery charger, and power management into a single device, offering significant advantages. Compared to systems with multiple separate power supplies, this approach enhances quality and power density. Most importantly, it improves efficiency – reducing component costs, wiring complexity, and commissioning efforts.



Watch Video:



1. Choose your Front-end

Each front-end includes the following modules: protection, filtering, a PFC converter, an energy buffer, and an isolating main DC/DC converter, all designed to meet the required power level.

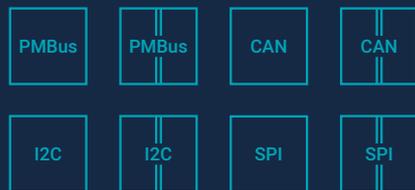


2. Choose your Output Modules

Our output modules are designed to meet your specific needs, offering DC and AC options, galvanic isolation, and bidirectional capability.



3. Choose your Communication Interfaces



4. Add your Custom Functions

Add your custom functions: Battery Charger, Uninterruptible Power Supply (UPS), Power Management, Modulated Output, High-Frequency Output, or Pulsed.



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