



DC Microgrids in intralogistics

Increasing energy efficiency and grid quality with direct current

The use of direct current in microgrids is establishing itself as a transformative technology and a path to climate neutrality. Energy consumption is significantly reduced, peak loads are avoided and braking or sink energy can be utilised directly, safely and in high quality for other consumers. At the same time, the seamless integration of new energy sources is possible. The DC voltage of 650V enables a smaller cable cross-section, which in turn saves resources. Weidmüller is a pioneer in the development of this technology and offers a comprehensive portfolio of solutions and components that enable the implementation and commissioning of DC networks.

Your benefits:

- Higher efficiency
- Use braking or sink energy
- Avoiding peak loads
- Better power quality
- Smaller cable cross-section



More information on our Website:

www.weidmueller.com/dc-microgrids

Our products, solutions and services for DC Microgrids

Competence in DC power distribution concepts for intralogistics applications



Power supplies and DC pre charge units (PCU)

Industrial power supplies, upstream DC pre charge units and additional components with DC/DC converters and UPS control modules all the way to electronic fuses.

Automation and software

Optimise your automation processes
- Easy and IoT ready

VARIRECTOR lightning and surge protection

Lightning and surge protection devices that conform to the standards of DIN VDE 0100-443 and -534 for mandatory surge protection in building infrastructures

Connectivity - Klippon® Connect terminal blocks

Terminal blocks with the SNAP IN or PUSH IN connection system fulfil the requirements of AC and DC rated voltages up to 1000 V for wiring to the feed-in and distribution to the functional areas.

OMNIMATE® PCB terminal blocks and plug-in connectors

OMNIMATE® Power: the secure AC and DC connection with PCB terminal blocks, PCB connectors and feed-through terminals fulfil the requirements of AC and DC rated voltages up to 1000 V.

Media converters and protocol gateways

Our media converters and protocol gateways ensure smooth communication between all network participants and are also especially convenient and economical.

RockStar® heavy-duty connectors

RockStar® heavy-duty connectors ensure the safe and reliable transmission of power, signals and data in industrial environments, both inside the control cabinet and outside in the field. Locks for selected plug-in connectors fulfil the requirements of the DC system concept up to level 3, i.e. allowing extended deliberate unlocking with a standard specialist tool.

Workshop & Accessories

Practical advantages for optimised work processes. Professional tools, printing solutions, markers, industrial luminaires and accessories for the highest demands.

