

Power Management

Maximum power for your production environment

Power supply solutions and services from Weidmüller

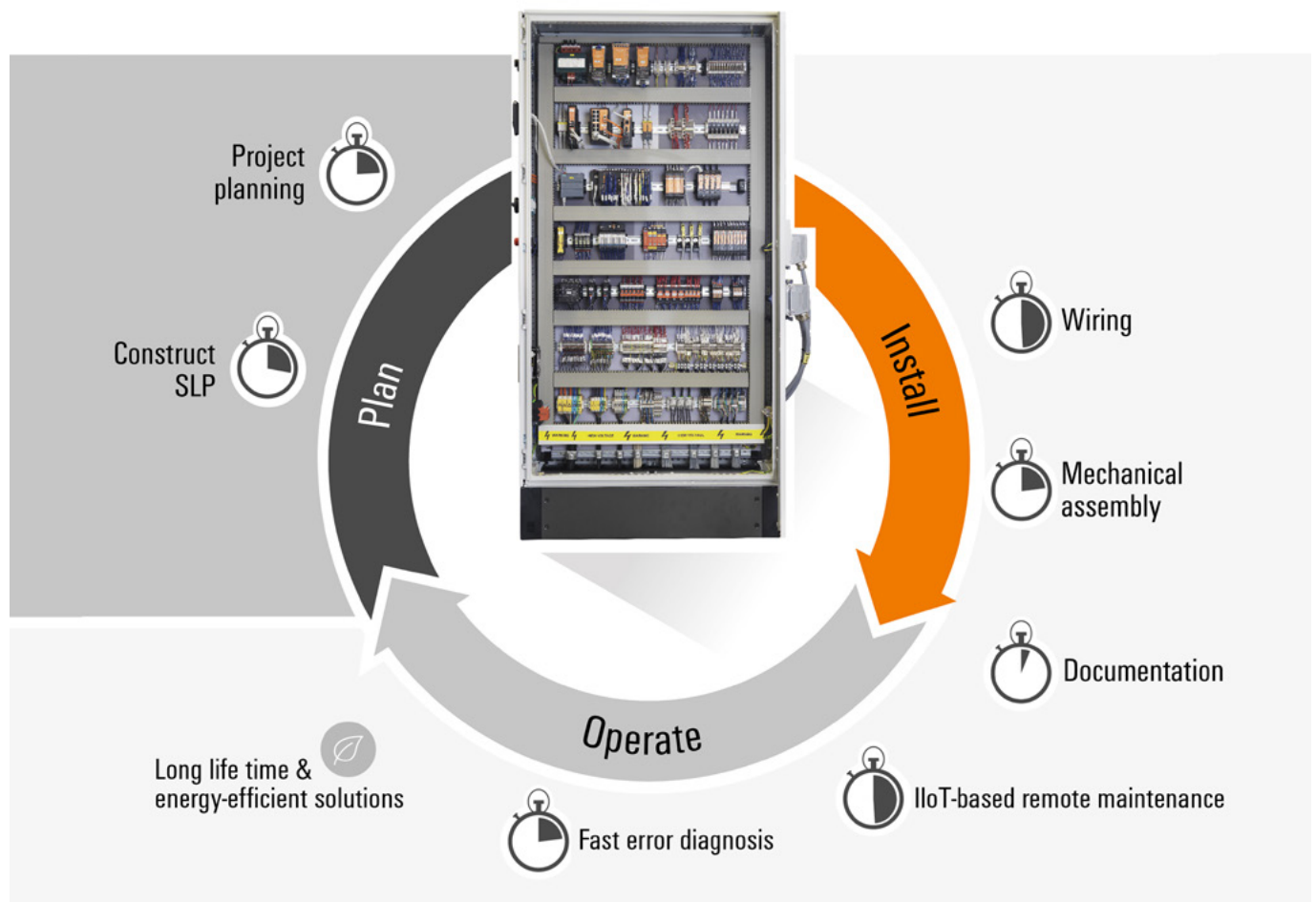


Weidmüller 

Components and services for your power management

Versatile, powerful and innovative – for all industries

Power supplies are the basis of almost all industrial control systems. However, specific requirements apply for every application. From economical standard solutions to high-performance systems – Weidmüller offers diverse application solutions. Create your own individual power management solution from over 500 products, and benefit from comprehensive services.



PLAN

Simple planning, advising and product selection

Advising from our sales engineers

- With the Weidmüller Configurator (WMC)
- With ECAD interfaces (EPLAN & Zuken)
- With a total of over 11,000 digitalised products
- From our Cabinet Consulting Service Team
- And the Fast Delivery Service

INSTALLATION

True added value for installation

Time and space savings thanks to efficient solutions

- **PROtop power supplies** for space-saving design
- **maxGUARD load monitoring** with integrated potential distribution
- **Plug-in communication modules** for automatic parameterisation via PLC
- **Smart display solutions** for tool-free parameterisation and status control with PROtop power supplies
- **FieldPower IP67 housing solutions** for quickly designing decentralised power supply solutions
- **Individually assembled and pre-tested control boxes** delivered ready-to-install through our assembly service

OPERATE

Optimal performance in ongoing operations

New technologies open up lots of new possibilities – including for our power supply solutions

- Our communication components can be integrated fully into the system controller and allow for IIoT-based remote maintenance
- Autonomous smart displays allow you to complete quick status checks with integrated life cycle forecasting and an advanced warning system for predictive maintenance
- Our DC-UPS solutions and buffer modules reliably protect you against power failures and brief interruptions to the control voltage
- Our DC load protection systems maxGUARD and topGUARD quickly, reliably, and selectively disconnect faulty power circuits



The benefits of our power management solutions:

- Comprehensive product line for all industries and applications
- Powerful services for planning, installing and operating systems
- Forward-thinking, communication-capable solutions to take advantage of the opportunities of the IIoT

The right solution for every need

Our Power Management portfolio at a glance

AC/DC power supplies

COMM modules



IO / Link



PROtop AC/DC
"the innovative choice"

AC/DC & DC/DC converter

Communicative devices



CANopen



Display 7S



PROtop DCDC & UW
"the specialists"

Selective load monitoring



topGUARD

Buffering & coupling



UPS control units



connectPower
battery modules



Reach your goal reliably with certified equipment

- More than 6 maritime approvals
- More than 4 international Ex approvals
- Wide range of UL approvals
- Various national approvals



www.weidmueller.com/powermanagement

From machine construction to the process industry, energy sector, building automation or transportation: each application places specific requirements on the power supply. Customers can select Power Management solutions for any application from Weidmüller's large portfolio.

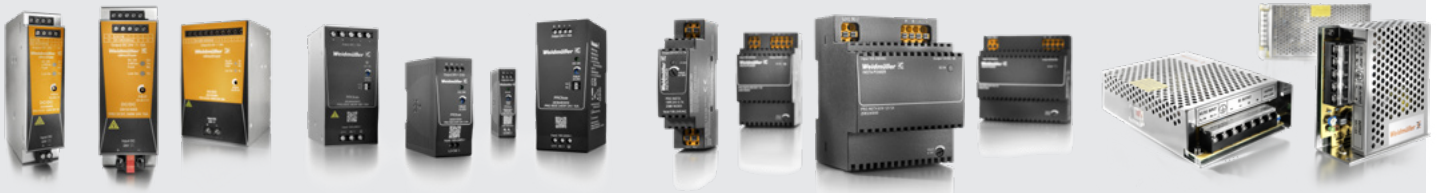
Non - DIN rail



PROmax
"the powerhouse"



PROeco
"the economical choice"

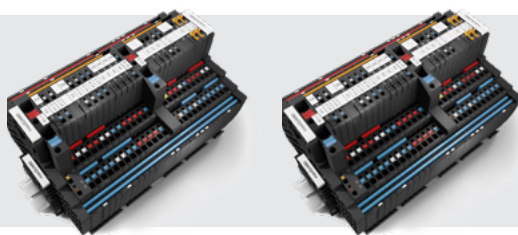


PRO DCDC

PRObas
"pure power"

InstaPower
"the compact option"

PRO-E (PRO PM)
"easy"



Standard

maxGUARD
application specific



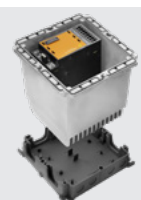
FieldPower
IP67 solutions



Buffer modules



Diode & redundancy modules
and other accessories



FieldPower
IP67 solutions



The benefits of our large portfolio:

- Broad range of options with solutions for every application
- Innovative technologies to design forward-thinking systems
- Holistic solutions for the electrical cabinet and the field

Added value for today, and tomorrow

Innovations for your Power Management

Each of your investments should pay off in the long-term. That is why our power supply solutions are packed full of innovative ideas you can use to improve your productivity and secure your competitive position. To offer you true added value, we often even do pioneering work. Here are a few examples:

PROtop & topGUARD

Power management for 24/7 operation

Optimal production monitoring and controlling are the be all end all for systems that are in operation 24/7. PROtop power supplies, in combination with topGUARD load monitoring and plug-in communication modules, are the ideal power management system for 100% data transparency and remote control capability.



PROtop in CC mode

High current charger

Backup power systems or shuttle systems in intralogistics are examples of applications for large DC energy storage. Use the configurable constant current mode (5...100% I_n) of the PROtop power supplies, for instance, to charge battery banks or super cap storages, or provide intermediate charging.

PROtop in FieldPower®

Decentralised power supply systems

Frequently, the power supplies used in conveying systems are protected against dust and dirt, such as the FieldPower device with an IP65 rating. These kinds of parallel-switched systems in a line or network structure require particular protection. Specialised functions of the PROtop® ensure reliable operation.



The ORing MOSFET

Redundancy without diodes

Systems critical to safety in ship building or the process industry need reliable power supplies. PROtop power supplies offer direct parallel switching thanks to the innovative, integrated Oring MOSFET – allowing for redundant power supply systems without diode modules.



Innovative power boost

Thanks to DCL technology

A power supply needs to reliably handle even spontaneous, high peak loads. PROtop, with dynamic DCL current limiting, offers outstanding load reserves of up to 600% $I_n/15ms$ or 300% $I_n/100ms$ for reliably triggering circuit breakers or for powerful engine starts.

Our plug-in modules

Able to communicate

Production systems in 24/7 operation need to run reliably day and night. Our plug-in communication modules can be retrofitted at any time, and are the key to IIoT-based monitoring systems.



Our innovative capacity, your advantage:

- Well-designed solutions for application-specific challenges
- High efficiency and reliability through customised adjustments
- Security for the future through innovative technologies

For everyone who needs more

Application-specific high-performance solutions

Depending on the application, scaled solutions are required in series and special machine construction in order to reliably supply the control systems – for instance, to protect them against power outages or brief interruptions to the control voltage, as well as to protect against overload or short circuits on the load side. Choose from a wide range of components, proven in practice, to design your individual protection and secure a reliable control voltage supply.

Examples of applications

PROmax for wind energy systems

Often, power supplies with a good price/performance ratio are used in wind energy systems, depending on the trade. Our PROmax power supplies are optimally tailored to the task: they offer only basic functions, but are highly robust.



Buffer modules for systems in continuous operation

Production systems that run continuously (24/7) must experience as few errors as possible. High loads – for instance with welding robots – can cause brief outages of the 24 VDC control voltage. Our DC buffer modules bridge such faults easily up to 200 ms. Parallel switching even makes it possible to multiply the buffer time.



maxGUARD for tooling machines

A short in a load circuit can cause a total outage of 24 V control voltage. Our maxGUARD electronic load monitoring is available to avoid this scenario. It guarantees selectivity even with long cables, providing optimal protection for the entire system. Take advantage of the integrated potential distribution and the modular system for optimised solutions.





PROeco for series manufacturing of machines

Often, economical and less complex power supply solutions are used in series machines. Our proven PROeco power supply family stands out in this application – with all basic functions at a high level of technical development.

DC UPS systems for marine navigation systems

In many critical systems – such as ships' navigation systems – the DC supply voltage must be maintained for a certain time even in case of a power outage. Our DC-UPS systems are highly scalable, and ensure an uninterruptible power supply.



The benefits of our high-performance solutions:

- Sector-specific solutions with all required approvals
- Well-developed, long-lasting and reliable products – developed together with our customers
- True added value in installation, maintenance and operation

Customised power

Fully customised complete solutions for special applications

Whether space-saving, economical, or with added functions: with our Weidmüller Configurator, you can quickly and easily assemble the right solution for your application. To create complete solutions, our power supplies can be combined universally with relays and semiconductor switches, Industrial Ethernet components, lightning and surge protection devices, etc.

PRO INSTA for building installations

Power supplies in building systems and technology should be compact, economical, and designed for typical junction boxes. We offer perfect solutions with power levels from 14 – 96 W and different output voltages. The PRO INSTA is also popular in series machine construction.



PRObas for small machinery

Small machines are often cost-intensive, so they need economical power supplies. PRObas is highly compact and impresses with innovative components, switches and mechanics, as well as an outstanding price/performance ratio and high efficiency.

PRO PM for elevator systems

Space-saving, inexpensive, and ready for direct installation: with the PRO PM series, Weidmüller offers very flat power supply devices for applications like lifts, escalators or ticket machines.



Fit for digitalisation

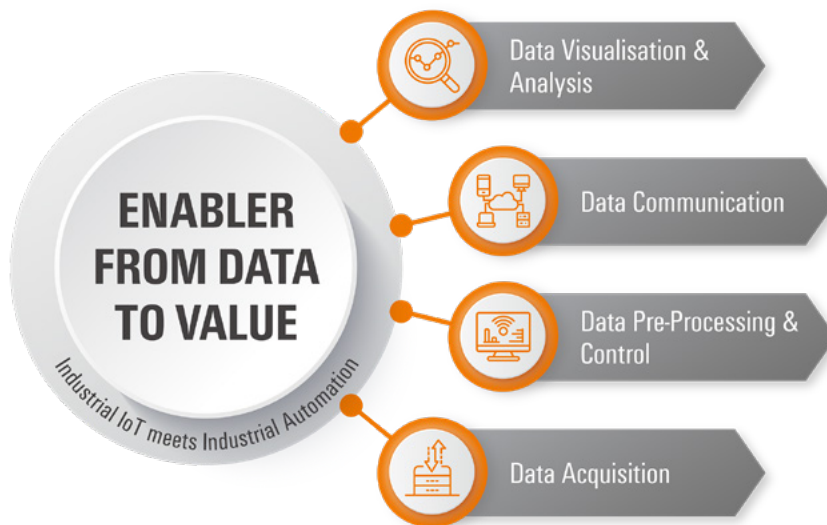
IIoT capable power management solutions

Communication-capable power supplies play a key role when digitalising machines and systems. They allow for continuous condition monitoring, support optimal processes, improve availability, create data transparency, and make it possible to use the advantages of the IIoT to generate value.



Flexible retrofitting: PROtop communication modules

The plug-in communication modules in the PROtop series read out diagnostic data and allow for a wide range of different settings and pre-programming. This modular retrofit solution can be easily plugged into different basic devices as needed, for flexible integration into systems. Compatibility with common protocols like CANopen & IO-Link facilitate adaption. The modules for Ethernet/IP, PROFIBUS, Modbus TCP/UDP and EtherCAT are in progress.



We see ourselves as “enablers from data to value” and show you the easy way to get started with the Industrial IoT.



The benefits of PROtop communication modules:

- Flexible for easy retrofitting
- One communication module for all devices
- Full data transparency from the sensor to the cloud

Weidmüller – Your partner in Smart Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Industrial Connectivity.

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