



# PRO 2 Power Supplies

## Highest Efficiency, Built in ECB and Compact Design



# WAGO POWER SUPPLIES PRO 2

The Heart of  
Your Control Cabinet



## Class-Leading Features of PRO 2 Power Supplies

- Intelligent load management that supplies 150% power for 5 s (TopBoost), and up to 600% output current for 15 ms (PowerBoost)
- Extreme reliability even in adverse conditions. Heat, cold and altitude have little impact on performance
- Communication capabilities that keep you informed about all important status information and data – ready for IIoT applications
- Easy planning and installation thanks to compact dimensions and a “digital twin” – 2D/3D data are available in the most important formats.

Power supplies are the heart of a control cabinet and must meet high requirements for reliability, efficiency, and size. In addition, advanced features such as a built-in electronic circuit breaker, configuration options and communication capabilities make the PRO 2 power supplies ready for the ever increasing networking and digitalization demands, all while maximizing up-time.

Up To  
**96%**  
Efficiency

### 1-Phase; Output: 24 VDC



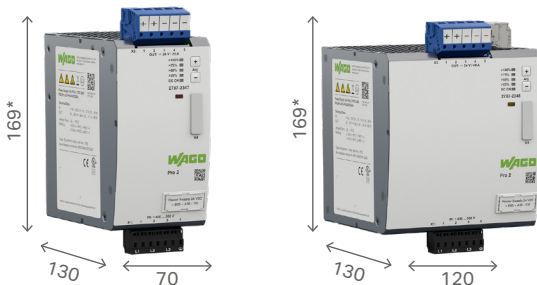
2787-2144  
5 A

2787-2146  
10 A

2787-2147  
20 A

2787-2448  
40 A

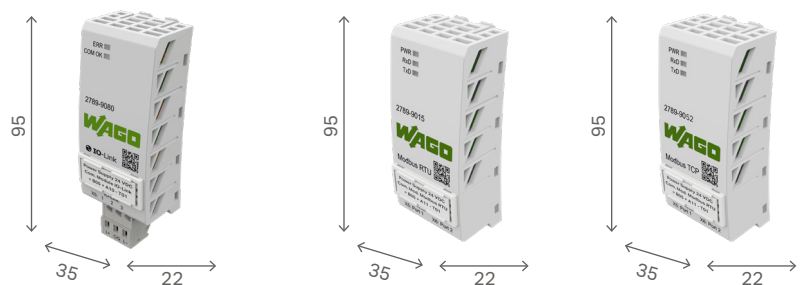
### 3-Phase; Output: 24 VDC



2787-2347  
20 A

2787-2348  
40 A

### Communication Modules



2789-9080  
I/O - LINK

2789-9015  
MODBUS RTU

2789-9052  
MODBUS TCP

\*with connectors, 130 mm without connectors





# TECHNICAL DATA

## 1-Phase; Output: 24 VDC

				
	2787-2144	2787-2146	2787-2147	2787-2448
Nominal Input Voltage	100 ... 240 VAC	100 ... 240 VAC	100 ... 240 VAC	200-240 VAC
Input Voltage Range	90 ... 264 VAC; 130 ... 373 VDC	90 ... 264 VAC; 130 ... 373 VDC	90 ... 264 VAC; 130 ... 373 VDC	180 ... 264 VAC; 255 ... 373 VDC
Nominal Output Voltage	24 VDC	24 VDC	24 VDC	24 VDC
Output Current	5 A	10 A	20 A	40 A
Nominal Output Power	120 W	240 W	480 W	960 W
TopBoost	Up to 600% for 15 ms	Up to 600% for 15 ms	Up to 600% for 15 ms	Up to 600% for 15 ms
PowerBoost	150% for 5s	150% for 5s	150% for 5s	150% for 5s
Efficiency	93.8%	95.3%	95.4%	96.3%
Ambient Operating Temperature	-25 ... +70 °C Device Starts at -40 °C, Type-Tested	-25 ... +70 °C Device Starts at -40 °C, Type-Tested	-25 ... +70 °C Device Starts at -40 °C, Type-Tested	-25 ... +70 °C Device Starts at -40 °C, Type-Tested
Approvals	CE, EN 610160-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201; ANSI/ISA UL C1, D2			

## 3-Phase; Output: 24 VDC

## Communication Modules

					
	2787-2347	2787-2348	2787-9080	2789-9015	2789-9052
Fieldbus Network			I/O-Link	MODBUS RTU	MODBUS TCP
Nominal Input Voltage	(2/3) x 400 ... 500 VAC	(2/3) x 400 ... 500 VAC	24 VDC; via IO-Link Master	24 VDC	24 VDC
Input Voltage Range	90 ... 264 VAC; 130 ... 373 VDC	90 ... 264 VAC; 130 ... 373 VDC	18 ... 30 VDC	18 ... 30 VDC	18 ... 30 VDC
Nominal Output Voltage	24 VDC	24 VDC			
Output Current	20 A	40 A			
Nominal Output Power	120 W	240 W			
TopBoost	Up to 600% for 15 ms	Up to 600% for 15 ms			
PowerBoost	150% for 5s	150% for 5s			
Efficiency	94.8%	95.3%			
Ambient Operating Temperature	-25 ... +70 °C Device Starts at -40 °C, Type-Tested	-25 ... +70 °C Device Starts at -40 °C, Type-Tested	-25 ... +70 °C Device Starts at -40 °C, Type-Tested	-25 ... +70 °C Device Starts at -40 °C, Type-Tested	-25 ... +70 °C Device Starts at -40 °C, Type-Tested
Approvals	CE, EN 610160-1; EN 61010-2-201; EN 61204-3; UL 61010-1; UL 61010-2-201; ANSI/ISA UL C1, D2				

# COMMUNICATION

Connecting the PRO 2 power supply to a fieldbus network is a snap... simply plug in the communication module to monitor and share important data like output current and voltage. This modular approach makes the PRO 2 power supplies fieldbus independent and adaptable to popular protocols like Modbus RTU, I/O Link, Modbus TCP/IP and coming soon EtherNet/IP.

IIoT Ready

Continuous monitoring of all data and values of your system's power supply

Predictive maintenance for greater system up-time



# CONFIGURATION

Our free interface configuration software offers local and remote parameter setting. Easily tailor your power supply to meet your system requirements.

Customizable parameters and configuration options provide application flexibility

Connect to WAGO PLCs with e/COCKPIT function blocks



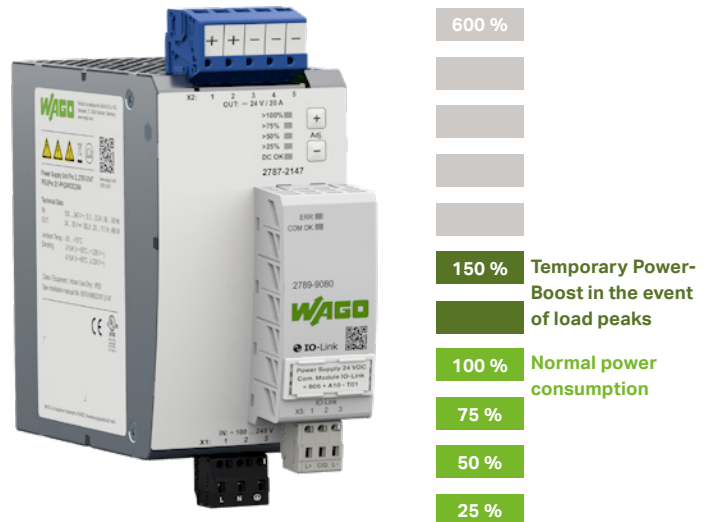
# LOAD MANAGEMENT

PowerBoost allows for easy switching of capacitive loads and high start-up currents thanks to 150% output power for 5 seconds. TopBoost allows for reliable tripping of circuit breakers by providing 600% power reserves for 15 ms.

Fast and reliable tripping of secondary-side circuit breakers

Power reserve eliminates expensive oversizing

Built-in single channel, configurable Electronic Circuit Breaker





# EFFICIENCY

Save cabinet space and increase energy savings with up to 96.3% efficiency. Highly efficient power supplies provide a smaller footprint, produce less heat, and reduce energy waste resulting in:

Lower CO<sub>2</sub> emissions - Just a 5% increase in efficiency saves 1 ton of CO<sub>2</sub> (over 5 years)

Put your PLC into standby mode via your PRO 2 power supply to save energy costs

Save cabinet space



# 96.3 %

# CHALLENGING ENVIRONMENTS

PRO 2 power supplies can be used in extreme temperature ranges from -40 °C ... +70 °C with minimal derating starting at +60 °C. Expect reliable operation in high-vibration and shock-prone areas, as well as altitudes up to 5000 m.

Wide temperature range offers application flexibility

Tested according to applicable shock, vibration, and altitude standards

Overvoltage category III provides greater operational reliability



# -40 ... +70 °C

# DESIGN

Slim design and less spacing required between devices saves valuable cabinet space. 2D/3D data is available in all relevant formats. The pluggable connectors are labeled in accordance with EN 81346-2 to eliminate wiring errors

Compact design improves control cabinet cooling and reduces panel size

E-CAD drawings reduce time and save costs during implementation

Connections labeled according to EN 81346-2



# smart DESIGNER

# RELIABILITY

An MTBF > 1,000,000 hours and long service life of the components mean lower costs compared to other power supplies.

Reliable operation of more than 114 years

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Reduce maintenance and replacement costs



**MTBF:**  
**1,000,000 h**

# INSTALLATION

CAGE CLAMP® spring pressure connection technology provides fast, vibration-proof and maintenance-free termination of solid, fine-stranded or ferruled conductors. Pluggable connectors offer pre-assembled wiring and ease of installation.

Saving time in commissioning, the front panel interface allows for fast and easy configuration, while an LED bar chart intuitively indicates the current load.

Push-In CAGE CLAMP® connectors save both wiring and installation time

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Pluggable connectors allow for pre-wiring

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Both LED bar chart and connection point labeling simplify system commissioning



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