



**Probing Solutions.  
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EN



## Multi-channel Power Supplies

Power and Remote Control for PMK active probes

**Datasheet**



## About the Multi-channel Power Supply Series

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The multi-channel power supplies from PMK are high precision 2ch, 4ch or 8ch power supplies specifically engineered to provide clean, stable, and reliable voltage and current for demanding high-performance probe applications in measurement and testing environments.

All are equipped with a USB interface that allows direct connection and remote control from a host computer. Models with additional LAN interface are available as well, enabling also networked operation and seamless integration into automated test environments.

Key technical features include:

- **Low noise and ripple:** Ensuring minimal interference and preserving signal integrity for highly sensitive measurements
- **Stable regulation:** Fast transient response and precise voltage/current control across multiple output channels
- **Flexible multi-channel design:** Supports simultaneous powering of several probes or measurement devices with independent channels
- **High-quality power modules and integrated filtering:** Optimized to minimize electrical disturbances and maximize measurement accuracy
- **Access to remote controllable probe features**

The multi-channel power supplies are fully compatible with the PMK Probe Control software, which provides a user-friendly graphical interface as well as a Python API for automated scripting and real-time monitoring of power supply parameters.

## Specifications

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Read the Instruction Manual before first use and keep it for future reference. A digital copy of the latest Instruction Manual revision can be downloaded at [www.pmk.de](http://www.pmk.de).

Do not exceed the specifications. This product comes with 2 years warranty. Each specification is determined at +23 °C ambient temperature.

## Electrical Specifications

### Output referred specifications:

| Models                              | 2ch PS-02                         | 4ch PS-03 | 8ch PS-06 |
|-------------------------------------|-----------------------------------|-----------|-----------|
| Max output power                    | 20 W                              | 40 W      | 60 W      |
| Output voltage                      | ± 9 V DC; symmetrical with ground |           |           |
| Max output current per channel      | 0.5 A DC continuous               |           |           |
| Ripple and noise (20 MHz bandwidth) | 5 mV RMS                          | 5 mV RMS  | 8 mV RMS  |

### Input referred specifications:

| Models                                   | 2 ch PS-02                       | 4 ch PS-03    | 8 ch PS-06                        |
|--|----------------------------------|---------------|-----------------------------------|
| Immunity / EMI                           | IEC/EN 60601-1 - EN55011-B       |               |                                   |
| Input voltage range                      | 90 V - 264 V AC<br>47 Hz - 63 Hz |               | 90 Hz - 264 V AC<br>47 Hz - 63 Hz |
| Input current under full load @115V/230V | 0.35 A / 0.22 A                  | 0.7 A / 0.4 A | 1.5 A / 1.0 A                     |
| Withstand voltage (input-output)         | 4 kV AC                          |               |                                   |
| Environmental protection                 | IP30                             |               |                                   |
| External Fuse                            | 2 A, slow                        | 2 A, slow     | 3.15 A, slow                      |

## Mechanical Specifications

| Models                    | 2 ch PS-02   | 4 ch PS-03 | 8 ch PS-06 |
|---------------------------|--------------|------------|------------|
| Length                    | 213 mm       |            |            |
| Width                     | 127.5 mm     |            |            |
| Height                    | 50.5 mm      |            |            |
| Weight                    | 1.0 kg       | 1.2 kg     | 1.4 kg     |
| Output Connector          | 4 pin LEMO * |            |            |
| Number of output channels | 2 ch         | 4 ch       | 8 ch       |

\* Observe pin out. See Operating Instructions. For use with PMK products only.

## Environmental Specifications

| Models                    |                     | 2 ch PS-02                    | 4 ch PS-03       | 8 ch PS-06 |
|---------------------------|---------------------|-------------------------------|------------------|------------|
| Altitude                  | operating           |                               | up to 2000 m     |            |
|                           | non-operating       |                               | up to 15000 m    |            |
| Temperature Range         | operating           |                               | 0 °C to +40 °C   |            |
|                           | storage temperature |                               | -20 °C to +40 °C |            |
| Maximum Relative Humidity | operating           | 90 %, non-condensing humidity |                  |            |
|                           | non-operating       | 90 %, non-condensing humidity |                  |            |

## Scope of Delivery

See chapter “Ordering Information” to review the selection of multi-channel power supplies and referring cables.

- 1x Multi-channel Power Supply
- 1x Instruction manual
- IEC C14 power cord
- USB-A to USB-C cable
- Only if LAN model was selected: LAN network cable

## Ordering Information

All models are equipped with an integrated wide-range power supply and an USB interface for remote control. Some models are available with additional LAN interface. The 2 ch, 4 ch and 8 ch model all have the same form factor.

Note, that for some PMK low voltage probe series also a more compact international wall plug power supply is available, without remote control capabilities. Please refer to the specific probe series datasheet for more information.

### Step 1: Select Power Supply

**889-09V-PS2**

PS-02 (2 channels, with USB interface for remote control)



**889-09V-PS2-L**

PS-02L (2 channels, with LAN and USB interface for remote control)



**889-09V-PS3**

PS-03 (4 channels, with USB interface for remote control)



**889-09V-PS3-L**

PS-03L (4 channels, with LAN and USB interface for remote control)



**889-09V-PS6**

PS-06 (8 channels, with USB interface for remote control)



**889-09V-PS6-L**

PS-06L (8 channels, with LAN and USB interface for remote control)



The power supply pin assignment is different from other power supplies.  
Use only original and recommended PMK power supplies with PMK probes.

Observe Connector Pin-Out  
for PMK power supply cables



### Step 2: Select Probe Power Supply cable

**890-520-900**

Power supply cable (0.6 m)

\*check if your probe already includes a power supply cable\*



**890-520-915**

Power supply cable (1.5 m)

## Notes

## Notes

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Specifications are subject to change without notice.

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Änderungen der Spezifikationen vorbehalten.