

PRO INSTA 30W 5V 6A**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 16

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Germany

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www.weidmueller.com



Power supplies from Weidmüller have long since proved their worth in supplying electrical modules. They can therefore be used safely in harsh industrial environments, in small businesses and in living areas, and have been granted international approvals. Weidmüller provides power supplies and additional components for industrial applications:

- Switched-mode power supply units
- DC/DC converters
- UPS control modules
- Electronic fuses

General ordering data

| | |
|------------|----------------------------|
| Type | PRO INSTA 30W 5V 6A |
| Order No. | 2580210000 |
| Version | |
| GTIN (EAN) | 4050118590937 |
| Qty. | 1 pc(s). |

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Technical data
Dimensions and weights

| | | | |
|------------|-------|-----------------|------------|
| Width | 72 mm | Width (inches) | 2.835 inch |
| Height | 90 mm | Height (inches) | 3.543 inch |
| Depth | 60 mm | Depth (inches) | 2.362 inch |
| Net weight | 256 g | | |

Temperatures

| | | | |
|-----------------------------|----------------|-----------------------------|----------------|
| Operating temperature, max. | 70 °C | Operating temperature, min. | -25 °C |
| Storage temperature, max. | 85 °C | Storage temperature, min. | -40 °C |
| Operating temperature | -25 °C...70 °C | Storage temperature | -40 °C...85 °C |

Input

| | | | |
|------------------------|-------------------------------------|--------------------------|--|
| AC current consumption | 0.5 A @ 230 V AC / 1.0 A @ 100 V AC | AC input voltage range | 85...264 V AC (derating at 100 V AC) |
| Connection system | PUSH IN | DC current consumption | 0.2 A @ 370 V DC / 0.5 A @ 120 V DC |
| DC input voltage range | 95...370 V DC | Frequency range AC | 45...65 Hz |
| Input fuse (internal) | Yes | Inrush current | max. 40 A |
| Rated input voltage | 100 - 240 V AC / 120 - 340 V DC | Recommended back-up fuse | 2 A / DI, safety fuse 6 A, Char. B, circuit breaker 2...4 A, Char. C circuit breaker |

output

| | | | |
|--|---|---|---|
| Capacitive load | unrestricted | Connection system | PUSH IN |
| Continuous output current @ U _{Nominal} | 6 A @ 55 °C, 3.75 A @ 70 °C | Nominal output current for U _{nom} | 6 A @ 55 °C |
| Output voltage | 7...4 V (adjustable via potentiometer on front) | Ramp-up time | ≤ 100 ms |
| Rated output voltage | 5 V DC ± 2 % | Residual ripple, breaking spikes | < 50 mV _{ss} @ U _{Nenn} , Full Load |

General data

| | | | |
|--------------------------|--------------------------------------|--|--|
| Degree of efficiency | 82 % | Housing version | Plastic, protective insulation |
| MTBF | > 750.000 h nach IEC 61709 (SN29500) | Mounting position, installation notice | Horizontal on DIN rail TS 35, top and bottom 50 mm clearance for free air flow, 10 mm clearance to neighbouring active subassemblies with full load, 5 mm with passive neighbouring subassemblies, direct row mounting with 90% rated load |
| Operating temperature | -25 °C...70 °C | Power loss, idling | 0.45 W |
| Power loss, nominal load | 5.4 W | Protection degree | IP20 |

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Technical data

EMC / shock / vibration

| | | | |
|---|---|---|---|
| Limiting of mains voltage harmonic currents | EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted) EN 61000-4-11 (dips), EN 61000-4-11 (Dips) | Noise emission in accordance with EN55032 | Class B |
| Vibration resistance IEC 60068-2-6 | 2.3 g | Interference immunity test acc. to | EN 61000-4-2 (ESD) EN 61000-4-3 and EN 61000-4-8 (fields) EN 61000-4-4 (burst) EN 61000-4-5 (surge) EN 61000-4-6 (conducted) EN 61000-4-11 (dips), EN 61000-4-11 (Dips) |
| Shock resistance IEC 60068-2-27 | 15 g In all directions | | |

Insulation coordination

| | | | |
|-----------------------------------|--------|-----------------------------------|--------|
| Insulation voltage output / earth | 3.5 kV | Insulation voltage output / earth | 0.5 kV |
| Insulation voltage, input/output | 4 kV | Pollution severity | 2 |
| Protection degree | II | | |

Electrical safety (applied standards)

| | | | |
|--|----------------------------|---|------------------------------------|
| Electrical machine equipment | Acc. to EN60204 | For use with electronic equipment | Acc. to EN50178 / VDE0160 |
| Protection against dangerous shock currents | Acc. to VDE0106-101 | Protective separation / protection against electrical shock | VDE0100-410 / acc. to DIN57100-410 |
| Safety transformers for switch-mode power supplies | according to EN 61558-2-16 | | |

Connection data (input)

| | | | |
|---|----------------------|---|---------------------|
| Conductor cross-section, AWG/kcmil , max. | 12 | Conductor cross-section, AWG/kcmil , min. | 24 |
| Conductor cross-section, flexible , min. | 0.25 mm ² | Conductor cross-section, rigid , max. | 2.5 mm ² |
| Conductor cross-section, rigid , min. | 0.25 mm ² | Connection system | PUSH IN |
| Wire connection cross section, flexible (input), max. | 2.5 mm ² | | |

Connection data (output)

| | | | |
|---|---------------------|---|----------------------|
| Conductor cross-section, AWG/kcmil , max. | 12 | Conductor cross-section, AWG/kcmil , min. | 24 |
| Conductor cross-section, flexible , max. | 2.5 mm ² | Conductor cross-section, flexible , min. | 0.25 mm ² |
| Conductor cross-section, rigid , max. | 2.5 mm ² | Conductor cross-section, rigid , min. | 0.25 mm ² |
| Connection system | PUSH IN | Number of terminals | 4 (++ / -) |

Signalling

| | |
|-----------|----------------------|
| LED green | Operating voltage OK |
|-----------|----------------------|

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 6.0 | EC002540 | eClass 6.2 | 19-05-10-01 |
| eClass 9.0 | 27-04-07-01 | eClass 9.1 | 27-04-07-01 |

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Data sheet**PRO INSTA 30W 5V 6A**

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Technical data**Approvals**

| | |
|------|---------|
| ROHS | Conform |
|------|---------|

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | Declaration of Conformity |
| User Documentation | Operating instruction |

Data sheet

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Drawings

