

INSTA PRO INSTA 60W 12V 5A

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
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The single-phase INSTA-POWER switching power supplies are characterised by a wide power spectrum, compact design and good value for money. They are suitable for temperature ranges from -25°C to +70°C, have international approvals and a wide voltage input range. This makes them suitable for a wide range of applications. This also includes signal and telecommunications systems as well as automation systems with a low power requirement up to 96 Watt.

General ordering data

| | |
|------------|---|
| Type | PRO INSTA 60W 12V 5A |
| Order No. | 2580240000 |
| Version | Power supply, switch-mode power supply unit |
| GTIN (EAN) | 4050118590975 |
| 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 | 258 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 |

Environmental Product Compliance

| | |
|------------|----------------|
| REACH SVHC | Lead 7439-92-1 |
|------------|----------------|

Input

| | | | |
|------------------------|-------------------------------------|--------------------------|--|
| AC current consumption | 0.7 A @ 230 V AC / 1.5 A @ 100 V AC | AC input voltage range | 85...264 V AC (derating at 100 V AC) |
| Connection system | PUSH IN | DC current consumption | 0.25 A @ 370 V DC / 0.8 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} | 5 A @ 55 °C, 3.75 A @ 70 °C | Nominal output current for U _{nom} | 5 A @ 55 °C |
| Output voltage | 16...9 V (adjustable via potentiometer on front) | Ramp-up time | ≤ 100 ms |
| Rated output voltage | 12 V DC ± 1 % | Residual ripple, breaking spikes | < 50 mVss @ U _{Nenn} , Full Load |

General data

| | | | |
|--------------------------|--------------------------------------|---|---|
| Degree of efficiency | 86% | 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 | 0.42 W |
| Power loss, nominal load | 8.4 W | Protection against reverse voltages from the load | 18...25 V DC |
| 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 | |
| Vibration resistance IEC 60068-2-6 | 2.3 g | Interference immunity test acc. to | Class B 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 input / earth | 3.5 kV | Insulation voltage output / earth | 0.5 kV |
| Insulation voltage, input/output | 4 kV | Pollution severity | 2 |
| Protection class | 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 |
| Number of terminals | 2 (L,N) | 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 |
|-----------|----------------------|

Data sheet

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Technical data

Approvals

Institute (CSA)



Certificate No. (CSA)

70211209

Classifications

| | | | |
|-------------|-------------|------------|-------------|
| ETIM 6.0 | EC002540 | ETIM 7.0 | EC002540 |
| eClass 9.0 | 27-04-07-01 | eClass 9.1 | 27-04-07-01 |
| eClass 10.0 | 27-04-07-01 | | |

Approvals

Approvals



ROHS

Conform

Downloads

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

Data sheet

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Drawings

