

**PRO INSTA 30W 24V 1.3A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

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**

|            |                                                   |
|------------|---------------------------------------------------|
| Version    | Power supply, switch-mode power supply unit, 24 V |
| Order No.  | <a href="#">2580190000</a>                        |
| Type       | PRO INSTA 30W 24V 1.3A                            |
| GTIN (EAN) | 4050118590920                                     |
| Qty.       | 1 pc(s).                                          |

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## Technical data

## Dimensions and weights

|            |       |                 |            |
|------------|-------|-----------------|------------|
| Depth      | 60 mm | Depth (inches)  | 2.362 inch |
| Height     | 90 mm | Height (inches) | 3.543 inch |
| Width      | 54 mm | Width (inches)  | 2.126 inch |
| Net weight | 192 g |                 |            |

## Temperatures

|                     |                |                       |                |
|---------------------|----------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C | Operating temperature | -25 °C...70 °C |
| Start-up            | ≥ -40 °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 with actuator                                                                      | 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                            |
| Nominal power consumption | 34.9 VA                                                                                    | Rated input voltage    | 110...240 V AC / 120...340 V DC      |
| Recommended back-up fuse  | 2 A / DI, safety fuse<br>6 A, Char. B, circuit breaker<br>2...4 A, Char. C circuit breaker | Wire connection method | PUSH IN with actuator                |

## Output

|                                                  |                                         |                                             |                                          |
|--------------------------------------------------|-----------------------------------------|---------------------------------------------|------------------------------------------|
| Capacitive load                                  | unrestricted                            | Connection system                           | PUSH IN                                  |
| Continuous output current @ $U_{\text{Nominal}}$ | 1.3 A @ 55 °C, 0.8 A @ 70 °C            | Nominal output current for $U_{\text{nom}}$ | 1.3 A @ 55 °C                            |
| Output current, max.                             | 1.3 A                                   | Output power                                | 30 W                                     |
| Output voltage, max.                             | 28 V                                    | Output voltage, min.                        | 22 V                                     |
| Output voltage, note                             | (adjustable via potentiometer on front) | Ramp-up time                                | ≤ 100 ms                                 |
| Rated output voltage                             | 24 V DC ± 1 %                           | Residual ripple, breaking spikes            | <50 mVss @ $U_{\text{Nenn}}$ , Full Load |
| Wire connection method                           | PUSH IN with actuator                   |                                             |                                          |

## General data

|                                        |                                                                                                                                                                                                                                             |                                                   |                                |
|----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|--------------------------------|
| Degree of efficiency                   | 86%                                                                                                                                                                                                                                         | Housing version                                   | Plastic, protective insulation |
| 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 sub-assemblies with full load, 5 mm with passive neighbouring subassemblies, direct row mounting with 90% rated load | Power loss, idling                                | 0.45 W                         |
| Power loss, nominal load               | 4.88 W                                                                                                                                                                                                                                      | Protection against reverse voltages from the load | 30...35 V DC                   |
| Protection degree                      | IP20                                                                                                                                                                                                                                        | Short-circuit protection                          | Yes, internal                  |

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**Technical data****EMC / shock / vibration**

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

**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 /<br>VDE0160          |
| Protection against dangerous shock cur-<br>rents | Acc. to VDE0106-101                                          | Protective separation / protection<br>against electrical shock | VDE0100-410 / acc. to<br>DIN57100-410 |
| Safety extra-low voltage                         | SELV acc. to IEC<br>61010-1, PELV acc. to IEC<br>61010-2-201 | Safety transformers for switch-mode<br>power supplies          | According to EN<br>61558-2-16         |

**Connection data (input)**

|                                              |                      |                                                          |                       |
|----------------------------------------------|----------------------|----------------------------------------------------------|-----------------------|
| Conductor cross-section, AWG/kcmil ,<br>max. | 12 AWG               | Conductor cross-section, AWG/kcmil ,<br>min.             | 24 AWG                |
| Conductor cross-section, flexible , min.     | 0.25 mm <sup>2</sup> | Conductor cross-section, rigid , max.                    | 2.5 mm <sup>2</sup>   |
| Conductor cross-section, rigid , min.        | 0.25 mm <sup>2</sup> | Connection system                                        | PUSH IN with actuator |
| Number of terminals                          | 2 (L,N)              | Wire connection cross section, flexible<br>(input), max. | 2.5 mm <sup>2</sup>   |

**Connection data (output)**

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

**Signalling**

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

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## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002540    | ETIM 7.0    | EC002540    |
| ETIM 8.0    | EC002540    | ETIM 9.0    | EC002540    |
| ETIM 10.0   | EC002540    | ECLASS 9.0  | 27-04-07-01 |
| ECLASS 9.1  | 27-04-07-01 | ECLASS 10.0 | 27-04-07-01 |
| ECLASS 11.0 | 27-04-07-01 | ECLASS 12.0 | 27-04-07-01 |
| ECLASS 13.0 | 27-04-07-01 | ECLASS 14.0 | 27-04-07-01 |
| ECLASS 15.0 | 27-04-07-01 |             |             |

## Environmental Product Compliance

|                                      |                                        |
|--------------------------------------|----------------------------------------|
| RoHS Compliance Status               | Compliant with exemption               |
| RoHS Exemption (if applicable/known) | 6c, 7a, 7cl                            |
| REACH SVHC                           | Lead 7439-92-1 Lead monoxide 1317-36-8 |
| SCIP                                 | d62541f7-8058-4336-b693-7303c8b40800   |

## Approvals

Approvals



|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approvals MAMID         | <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319221/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319221/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319228/-T1z1mm-S800/</a> <a href="https://mdcop.weidmueller.com/mediadelivery/rendition/900_319258/-T1z1mm-S800/">https://mdcop.weidmueller.com/mediadelivery/rendition/900_319258/-T1z1mm-S800/</a> |
| ROHS                    | Conform                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| UL File Number Search   | UL Website                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Certificate no. (cULus) | E258476                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Downloads

|                                             |                                                                                                                                                                                                                                                |
|---------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">PRO INSTA 30W 12V 24V EN 62368-1.pdf</a><br><a href="#">CSA UL508 UL 121201 Certificate.pdf</a><br><a href="#">UL 61010 Certificate.pdf</a><br><a href="#">Declaration of Conformity</a><br><a href="#">UK Conformity Assessed</a> |
| Engineering Data                            | <a href="#">CAD data – STEP</a>                                                                                                                                                                                                                |
| User Documentation                          | <a href="#">Operating instruction</a>                                                                                                                                                                                                          |
| Catalogues                                  | <a href="#">Catalogues in PDF-format</a>                                                                                                                                                                                                       |

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## Drawings

