

PRO ECO 120W 12V 10A

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



The new PROeco 2nd generation power supplies maximise the availability of automation applications. The twelve-part series offers standard functions: with high performance, efficiency and suitability for many systems. The three-colour LED makes service activities and the integration of PROeco devices particularly easy. The series is compatible with DC UPS, electronic load monitoring and diode modules and is suitable for setting up power management systems. The compact design suits space-constrained applications, such as flat control cabinets in the field.

General ordering data

| | |
|---------------------|---|
| Version | Power supply, switch-mode power supply unit, 12 V |
| Order No. | 1469580000 |
| Type | PRO ECO 120W 12V 10A |
| GTIN (EAN) | 4050118275803 |
| Qty. | 1 items |
| Delivery status | This article will no longer be available in the future. |
| Available until | 2026-12-30T00:00:00+01:00 |
| Alternative product | PRO BAS 120W 12V 10A |

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Technical data

Approvals

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| | |
|-------------------------|----------------------------|
| ROHS | Conform |
| UL File Number Search | UL Website |
| Certificate no. (cULus) | E258476 |

Dimensions and weights

| | | | |
|------------|--------|-----------------|-------------|
| Depth | 100 mm | Depth (inches) | 3.937 inch |
| Height | 125 mm | Height (inches) | 4.9212 inch |
| Width | 40 mm | Width (inches) | 1.5748 inch |
| Net weight | 605 g | | |

Temperatures

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

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7a, 7cI |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 6d8cdf22-8230-4af8-86c8-3558c716666d |

Input

| | | | |
|--------------------------|---|---------------------------|---------------------------------------|
| Connection system | Screw connection | AC input voltage range | 85...264 V AC (derating at 100 V AC) |
| Recommended back-up fuse | 4 A / DI, safety fuse 6 A, Char. B, circuit breaker 3...5 A, Char. C, circuit breaker | Frequency range AC | 47...63 Hz |
| Rated input voltage | 100...240 V AC | Surge protection | Varistor |
| Input fuse (internal) | Yes | AC current consumption | 1.25 A @ 230 V AC / 2.25 A @ 110 V AC |
| DC current consumption | 0.4 A @ 370 V DC / 1.2 A @ 120 V DC | DC input voltage range | 80...370 V DC (Derating @ 120 V DC) |
| Inrush current | max. 40 A | Nominal power consumption | 137.9 VA |

Output

| | | | |
|--------------------------------------|--------------------------------|------------------------------------|-----------------------------|
| Output power | 120 W | Connection system | Screw connection |
| Rated output voltage | 12 V DC \pm 1 % | Residual ripple, breaking spikes | <50 mV ss @ 12 V DC, I Nenn |
| Parallel connection option | yes, max. 5 | Overload protection | Yes |
| Output voltage, max. | 16 V | Output voltage, min. | 10 V |
| Output voltage, note | (adjustable via potentiometer) | Nominal output current for Unom | 10 A @ 55 °C |
| Capacitive load | unrestricted | Protection against inverse voltage | Yes |
| Continuous output current @ UNominal | 10 A @ 55 °C, 2.5 A @ 70 °C | Ramp-up time | \leq 100 ms |

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| | | | |
|---------------------------------------|--|---|--|
| Power factor (approx.) | > 0.5...230 V AC / > 0.53... 115 V AC | AC failure bridging time @ Inom | > 80 ms @ 230 V AC / > 20 ms @ 115 V AC |
| Degree of efficiency | 87 % | Protection degree | IP20 |
| Surge voltage category | II | Mounting position, installation notice | on terminal rail TS 35 |
| Housing version | Metal, corrosion resistant | Protection against reverse voltages from the load | > 18 V DC |
| Indication | Green LED (Uoutput > 21.6 V DC), Yellow LED (Ioutput > 90 % IRated typ.), red LED (overload, overtemperature, short-circuit, Uoutput < 20.4 V DC) | Earth leakage current, max. | 3.5 mA |
| Max. perm. air humidity (operational) | 5 %...95 % RH | Power loss, idling | 4 W |
| Short-circuit protection | Yes | Power loss, nominal load | 20 W |
| Protection against over-heating | Yes | | |

EMC / shock / vibration

| | | | |
|---|---------------------------|------------------------------------|--|
| Limiting of mains voltage harmonic currents | According to EN 61000-3-2 | Shock resistance IEC 60068-2-27 | 15 g In all directions |
| Noise emission in accordance with EN55032 | Class B | Interference immunity test acc. to | EN 61000-4-2 (ESD), EN 61000-4-3 (RS), EN 61000-4-4 (burst), EN 61000-4-5 (surge), EN 61000-4-6 (conducted), EN61000-4-8 (Fields), EN61000-4-11 (Dips) |
| Vibration resistance IEC 60068-2-6 | 1 g according to EN 50178 | | |

Insulation coordination

| | | | |
|----------------------------------|-----------------------|-----------------------------------|--------|
| Surge voltage category | II | Pollution severity | 2 |
| Protection class | I, with PE connection | Insulation voltage, input/output | 3 kV |
| Insulation voltage input / earth | 2 kV | Insulation voltage output / earth | 0.5 kV |

Electrical safety (applied standards)

| | | | |
|---|------------------------------------|--|--|
| For use with electronic equipment | Acc. to EN50178 / VDE0160 | Electrical machine equipment | Acc. to EN60204 |
| Protection against dangerous shock currents | Acc. to VDE0106-101 | Safety extra-low voltage | SELV acc. to IEC 60950-1, PELV according to EN 60204-1 |
| 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)

| | | | |
|---|---------------------|--|---------------------|
| Connection system | Screw connection | Number of terminals | 3 for L/N/PE |
| Conductor cross-section, AWG/kcmil, max. | 12 AWG | Conductor cross-section, AWG/kcmil, min. | 26 AWG |
| Wire connection cross section, flexible (input), max. | 2.5 mm ² | Conductor cross-section, flexible, min. | 0.5 mm ² |
| Conductor cross-section, rigid, max. | 6 mm ² | Conductor cross-section, rigid, min. | 0.5 mm ² |
| Tightening torque, min. | 0.5 Nm | Tightening torque, max. | 0.6 Nm |

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Connection data (output)

| | | | |
|---|---------------------|---|---------------------|
| Connection system | Screw connection | Number of terminals | 6 (++, -, 13, 14) |
| Conductor cross-section, AWG/kcmil , max. | 12 AWG | Conductor cross-section, AWG/kcmil , min. | 26 AWG |
| Conductor cross-section, flexible , max. | 2.5 mm ² | Conductor cross-section, flexible , min. | 0.5 mm ² |
| Conductor cross-section, rigid , max. | 6 mm ² | Conductor cross-section, rigid , min. | 0.5 mm ² |
| Tightening torque, min. | 0.5 Nm | Tightening torque, max. | 0.6 Nm |

Signalling

| | | | |
|------------------|---|---------------------------|--------------------|
| Floating contact | Yes | Contact load (NO contact) | max. 30 V DC / 1 A |
| Relay on/off | Output voltage >21.6 V DC/ <20.4 V DC, overload | | |

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC002540 | ETIM 9.0 | EC002540 |
| ETIM 10.0 | EC002540 | ECLASS 14.0 | 27-04-07-01 |
| ECLASS 15.0 | 27-04-07-01 | | |

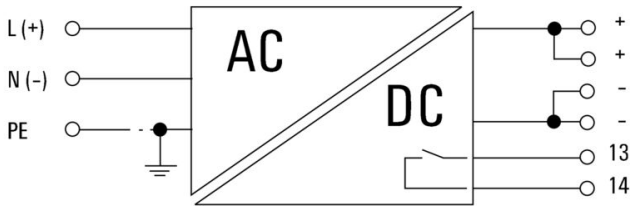
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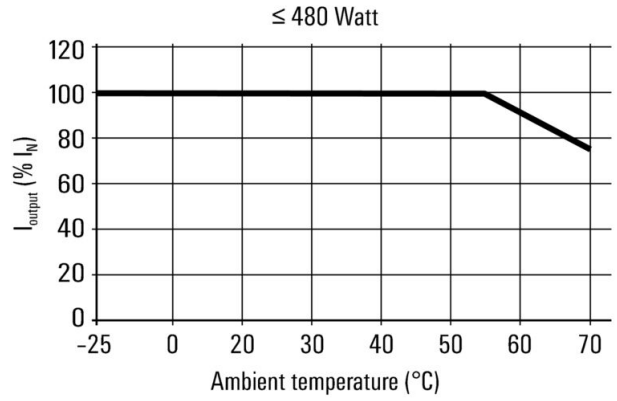
Drawings

Electric symbol

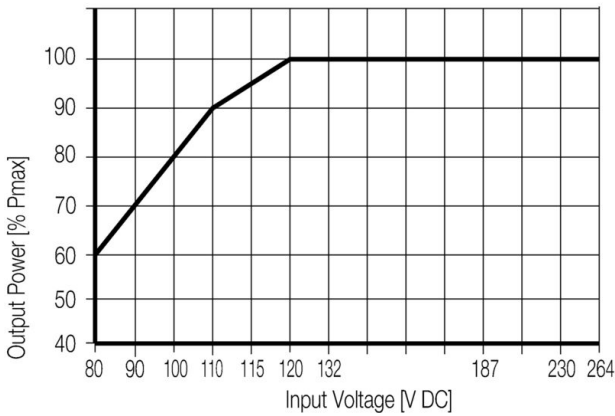


Pay attention to polarity of DC connection

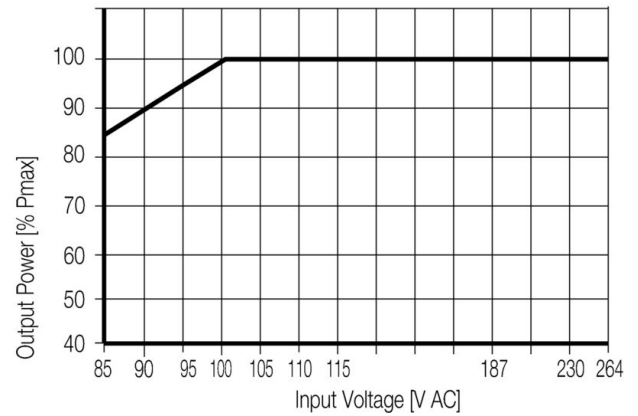
Derating curve



Derating curve



Derating curve



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Accessories

Slotted screwdriver



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900, IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | SDIS SLIM 0.6X3.5X100 | Version | |
| Order No. | 2749610000 | Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm | |
| GTIN (EAN) | 4050118896350 | | |
| Qty. | 1 ST | | |

End bracket



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | WEW 35/1 V0 GF SW | Version | |
| Order No. | 1478990000 | End bracket, black, TS 35, V-0, Wemid, Width: 12 mm, 130 °C | |
| GTIN (EAN) | 4050118286892 | | |
| Qty. | 50 ST | | |
| Type | WEW 35/2 V0 GF SW | Version | |
| Order No. | 1479000000 | End bracket, black, TS 35, V-0, Wemid, Width: 8 mm, 130 °C | |
| GTIN (EAN) | 4050118286779 | | |
| Qty. | 50 ST | | |