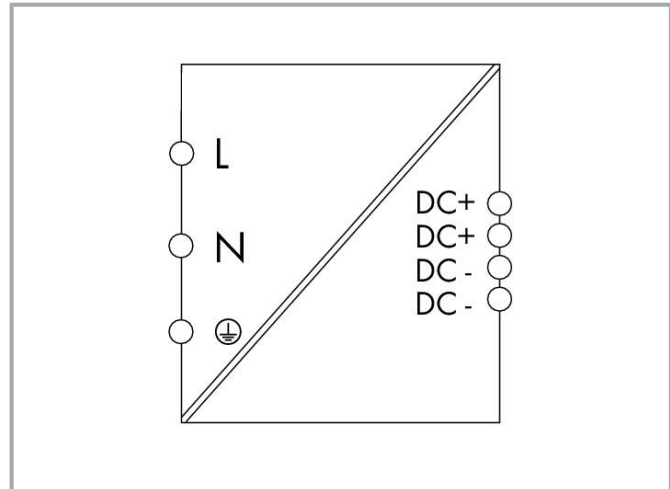
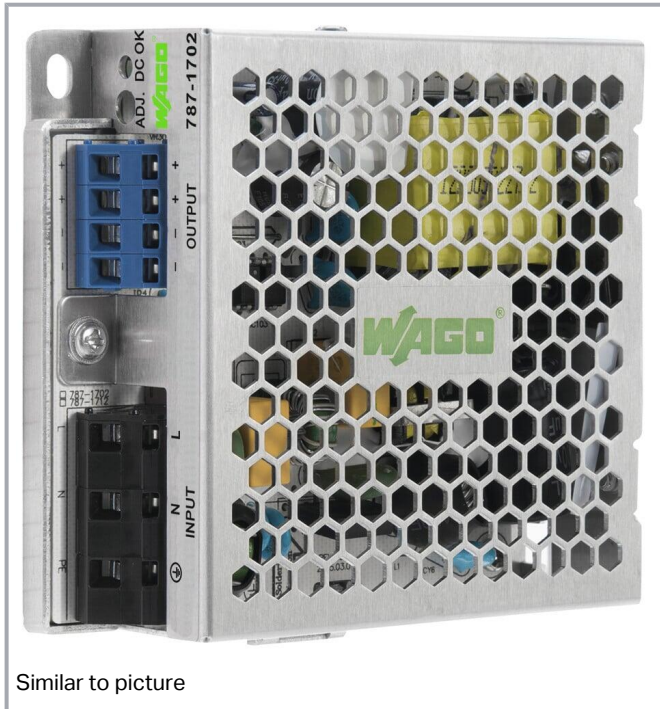


## Data sheet | Item number: 787-1702

Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 1.25 A output current; DC-OK LED

[www.wago.com/787-1702](http://www.wago.com/787-1702)



Similar to picture

## Item description

### Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Encapsulated for use in control cabinets
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60335-1 and UL 60950-1; PELV per EN 60204
- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

## Data

### Technical data

Subject to changes. Please also observe the further product documentation!

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## Input

|                                          |                                                              |
|------------------------------------------|--------------------------------------------------------------|
| Phases                                   | 1                                                            |
| Nominal input voltage $U_{i\text{ nom}}$ | 1 x AC 100 ... 240 V                                         |
| Input voltage range                      | 1 x AC 90 ... 264 V; DC 125 ... 375 V                        |
| Nominal mains frequency range            | 47 ... 63 Hz; 0 Hz                                           |
| Input current $I_i$                      | $\leq 0.3\text{ A}$ (230 VAC); $\leq 0.6\text{ A}$ (115 VAC) |
| Inrush current                           | $\leq 18\text{ A}$                                           |
| Power factor correction (PFC)            | Passive                                                      |
| Mains failure hold-up time               | $\geq 10\text{ ms}$ (230 VAC)                                |

## Output

|                                           |                                                                                                                                               |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| Nominal output voltage $U_{o\text{ nom}}$ | DC 24 V (SELV)                                                                                                                                |
| Output voltage range                      | DC 22 ... 26 V (adjustable)                                                                                                                   |
| Default setting                           | DC 24 V                                                                                                                                       |
| Nominal output current $I_{o\text{ nom}}$ | 1.25 A (24 VDC; 110 ... 240 VAC); 1 A (24 VDC; 100 ... 240 VAC)                                                                               |
| Nominal output power                      | 30 W                                                                                                                                          |
| Deviation                                 | $\leq 1\%$                                                                                                                                    |
| Residual ripple                           | $\leq 200\text{ mV}$ (peak-to-peak)                                                                                                           |
| Overload behavior                         | Constant power (in overload range: $1.05 \dots 1.4 \times I_{o\text{ nom}}$ ); Shutdown and automatic restart in the event of a short circuit |

## Signaling and communication

|                            |                       |
|----------------------------|-----------------------|
| Signaling                  | 1 x LED DC OK (green) |
| Operation status indicator | Green LED ( $U_o$ )   |

## Efficiency/power losses

|                   |                                             |
|-------------------|---------------------------------------------|
| Power loss $P_i$  | $\leq 6\text{ W}$ (230 VAC; 24 VDC; 1.25 A) |
| Efficiency (typ.) | 87 % (230 VAC; 1.25 ADC)                    |

## Circuit protection

|                             |                                                           |
|-----------------------------|-----------------------------------------------------------|
| Internal fuse               | F 1 A / 250 VAC                                           |
| Backup fusing (required)    | An external DC fuse is required for the DC input voltage. |
| Backup fusing (recommended) | Circuit breaker: B6, B10                                  |

Subject to changes. Please also observe the further product documentation!

## Safety and protection

|                                 |                                     |
|---------------------------------|-------------------------------------|
| Isolation voltage (sec.-PE)     | DC 0.7 kV                           |
| Protection class                | I                                   |
| Protection type                 | IP20; per EN 60529                  |
| Overvoltage category            | II                                  |
| Pollution degree                | 2                                   |
| Transient suppression (primary) | Varistor                            |
| Short-circuit-protected         | Yes                                 |
| Open-circuit-proof              | Yes                                 |
| Parallel operation              | Yes                                 |
| Series operation                | Yes, for 2 devices of the same type |
| MTBF                            | > 300,000 h (per IEC 61709)         |

## Connection data

|                                |                                   |
|--------------------------------|-----------------------------------|
| Connection type 1              | Input/Output                      |
| Connection technology          | CAGE CLAMP®                       |
| WAGO connector                 | WAGO 236 Series                   |
| Solid conductor                | 0.08 ... 2.5 mm² / 28 ... 12 AWG  |
| Fine-stranded conductor        | 0.08 ... 2.5 mm² / 28 ... 12 AWG  |
| Strip length                   | 6 ... 7 mm / 0.24 ... 0.28 inches |
| Note (conductor cross-section) | 12 AWG: THHN, THWN                |

## Physical data

|                                   |                      |
|-----------------------------------|----------------------|
| Width                             | 30 mm / 1.181 inches |
| Height                            | 90 mm / 3.543 inches |
| Depth from upper-edge of DIN-rail | 99 mm / 3.898 inches |

## Mechanical data

|               |                            |
|---------------|----------------------------|
| Mounting type | DIN-35 rail<br>Screw mount |
|---------------|----------------------------|

## Material data

|           |          |
|-----------|----------|
| Fire load | 0.129 MJ |
| Weight    | 257 g    |

Subject to changes. Please also observe the further product documentation!



## Environmental requirements

|                                 |                                           |
|---------------------------------|-------------------------------------------|
| Ambient temperature (operation) | -20 ... +60 °C                            |
| Ambient temperature (storage)   | -25 ... +75 °C                            |
| Relative humidity               | 10 ... 95 % (no condensation permissible) |
| Derating                        | -4 %/K (> 45 °C)                          |
| Climatic category               | 3K3 (per EN 60721)                        |

## Standards and specifications

|                          |                                                                            |
|--------------------------|----------------------------------------------------------------------------|
| Conformity marking       | CE                                                                         |
| Standards/specifications | EN 61204-3<br>EN 60335-1<br>EN 62368-1<br>UL 60950-1<br>UL 508<br>SEMI F47 |

## Commercial data

|                       |               |
|-----------------------|---------------|
| eCl@ss 10.0           | 27-04-07-01   |
| eCl@ss 9.0            | 27-04-07-01   |
| ETIM 8.0              | EC002540      |
| ETIM 7.0              | EC002540      |
| Recupel Type          |               |
| ECCN                  | NO DATA       |
| PU (SPU)              | 1 pcs         |
| Packaging type        | box           |
| Country of origin     | CN            |
| GTIN                  | 4055143372459 |
| Customs tariff number | 85044083900   |

## Environmental Product Compliance

|                                           |                                      |
|-------------------------------------------|--------------------------------------|
| RoHS Compliance Status                    | Compliant, No Exemption              |
| SCIP notification number (Bulgaria)       | f8698786-e477-495b-941f-4f919d74e02a |
| SCIP notification number (Czech Republic) | 99a56387-ebca-4ccd-ad92-657d3e95a071 |

## Approvals / Certificates

### General approvals

| Logo | Approval | Additional Approval Text | Certificate name |
|------|----------|--------------------------|------------------|
|------|----------|--------------------------|------------------|

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|                                                                                  |                                      |                |                  |
|----------------------------------------------------------------------------------|--------------------------------------|----------------|------------------|
|  | EAC<br>GZO Almaty Standart           | TP TC 004/2011 | EAC CoC<br>03078 |
|  | EAC<br>GZO Almaty Standart           | TP TC 020/2011 | EAC CoC<br>03081 |
|  | UL<br>Underwriters Laboratories Inc. | UL 60950-1     | E255815          |
|  | UL<br>Underwriters Laboratories Inc. | UL 508         | E255817          |

#### Declarations of conformity and manufacturer's declarations

| Logo                                                                               | Approval                                           | Additional Approval Text | Certificate name |
|------------------------------------------------------------------------------------|----------------------------------------------------|--------------------------|------------------|
|   | EU-Declaration of Conformity<br>WAGO GmbH & Co. KG | -                        | -                |
|  | MFD for SEMI F47<br>WAGO GmbH & Co. KG             | -                        | -                |

#### Optional accessories

##### Marking accessories

|                                                                                    |                                                                                        |                                                                |
|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|----------------------------------------------------------------|
| Marking strip                                                                      |                                                                                        |                                                                |
|  | Item no.: 210-831<br>Marking strips; on reel; 2.3 mm wide; plain; Self-adhesive; white | <a href="http://www.wago.com/210-831">www.wago.com/210-831</a> |
|  | Item no.: 210-832<br>Marking strips; on reel; 3 mm wide; plain; Self-adhesive; white   | <a href="http://www.wago.com/210-832">www.wago.com/210-832</a> |

##### Tool

|                                                                                    |                                         |                                                                |
|------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------------------------|
| Operating tool                                                                     |                                         |                                                                |
|  | Item no.: 210-769<br>SCREWDRIVER; green | <a href="http://www.wago.com/210-769">www.wago.com/210-769</a> |

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Item no.: 210-720

Operating tool; Blade: 3.5 x 0.5 mm; with a partially insulated shaft; multicoloured

[www.wago.com/210-720](http://www.wago.com/210-720)**Downloads****Documentation****Bid Text**

|                          |             |                 |          |
|--------------------------|-------------|-----------------|----------|
| 787-1702<br>X81 - Datei  | 2019 年10月1日 | xml<br>7.0 kB   | Download |
| 787-1702<br>docx - Datei | 2019 年10月1日 | docx<br>21.0 kB | Download |
| ausschreiben.de 787-1702 |             | URL             | Download |

**Instruction Leaflet**

|                                                          |                       |                 |          |
|----------------------------------------------------------|-----------------------|-----------------|----------|
| ECO Power Switched-Mode Power Supplies<br>24 VDC, 1.25 A | V 1.5<br>2020 年12月21日 | pdf<br>256.1 kB | Download |
|----------------------------------------------------------|-----------------------|-----------------|----------|

**Additional Information**

|                                                                                     |                        |               |          |
|-------------------------------------------------------------------------------------|------------------------|---------------|----------|
| Disposal and Recycling<br>Electrical and electronic equipment, Batteries, Packaging | V 1.1.0<br>2022 年8月18日 | pdf<br>2.2 MB | Download |
|-------------------------------------------------------------------------------------|------------------------|---------------|----------|

**CAD/CAE-Data****CAD data**

|                       |     |          |
|-----------------------|-----|----------|
| 2D/3D Models 787-1702 | URL | Download |
|-----------------------|-----|----------|

**CAE data**

|                            |     |          |
|----------------------------|-----|----------|
| EPLAN Data Portal 787-1702 | URL | Download |
| ZUKEN Portal 787-1702      | URL | Download |
| WSCAD Universe 787-1702    | URL | Download |

**Asset Administration Shell**

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Environmental Product Compliance

Compliance Search

|                                                                                                   |     |          |
|---------------------------------------------------------------------------------------------------|-----|----------|
| Environmental Product Compliance 787-1702                                                         | URL | Download |
| Switched-mode power supply; Eco; 1-phase; 24 VDC output voltage; 1.25 A output current; DC-OK LED |     |          |

Installation Notes

Product family

EPSITRON ECO Power  
[Show all products from the family](#)

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