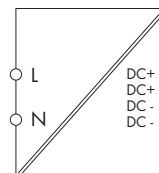


## Switched-Mode Power Supply

EPSITRON® COMPACT Power



- Primary switch mode power supply unit
- Prepared for class II equipment
- Natural convection cooling when horizontally mounted
- Stage profile, ideal for distribution boards or distribution boxes
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

## Technical Data

|                                   |                                            |
|-----------------------------------|--------------------------------------------|
| <b>Input:</b>                     |                                            |
| Nominal input voltage $V_i$ nom   | 100 ... 240 VAC                            |
| Input voltage range               | 85 ... 264 VAC; 120 ... 373 VDC            |
| Input voltage derating            | < 100 VAC: $I_a$ max. 2.0 A                |
|                                   | < 90 VAC: $I_a$ max. 1.8 A                 |
| Frequency                         | 44 ... 66 Hz; 0 Hz                         |
| Input current $I_i$               | 1.4 A at 110 VAC / 0.6 A at 230 VAC        |
| Discharge current                 | 1 mA typ.                                  |
| Inrush current                    | < 30 A, NTC                                |
| Mains failure hold-up time        | > 10 ms at 110 VAC /                       |
|                                   | > 80 ms at 230 VAC                         |
| <b>Output:</b>                    |                                            |
| Nominal output voltage $V_o$ nom  | 24 VDC (SELV)                              |
| Output voltage range              | 22.8 ... 26.4 VDC adjustable               |
| Output current $I_o$              | 2.5 A at 24 VDC                            |
|                                   | max. 1.6 A in any mounting position        |
| Factory preset                    | 24 VDC                                     |
| Adjustment accuracy               | 2 %                                        |
| Residual ripple                   | < 100 mVpp at 20 MHz                       |
| Current limitation                | 1.1 x $I_o$ typ.                           |
| Overload behavior                 | Constant current                           |
| Operational indication            | LED green (Va)                             |
| <b>Efficiency / power losses:</b> |                                            |
| Efficiency                        | 88 % typ.                                  |
| Power loss $P_v$                  | 2.2 W (230 VAC/no load),                   |
|                                   | 8.5 W (230 VAC/rated load)                 |
| Max. power loss $P_v$             | 10.5 W typ. (100 VAC / 24 VDC, 2.5 A)      |
| <b>Fuse protection:</b>           |                                            |
| Internal fuse                     | 2 AT                                       |
| External fuse                     | Circuit breakers 10 A, 16 A,               |
|                                   | characteristic: B or C                     |
|                                   | An external DC fuse is required for the DC |
|                                   | input voltage                              |

| Description                               | Item No. | Pack. Unit |
|-------------------------------------------|----------|------------|
| Switched-Mode Power Supply, 24 VDC / 2.5A | 787-1012 | 1          |

## Technical Data

|                                         |                                               |
|-----------------------------------------|-----------------------------------------------|
| <b>Environmental requirements:</b>      |                                               |
| Ambient operating temperature           | -25 °C ... +55 °C                             |
| Storage temperature                     | -25 °C ... +80 °C                             |
| Rel. humidity                           | 30 % ... 85 % (no condensation)               |
| Derating                                | -3 % / K (> 45 °C)                            |
| Degree of pollution                     | 2 (acc. to EN 50178)                          |
| Climatic category                       | 3K3 (acc. to EN 60721)                        |
| <b>Safety and protection:</b>           |                                               |
| Enclosure                               | Plastic, light gray,                          |
|                                         | Flammability class V0 acc. to UL94            |
| Test voltage pri. - sec.                | 4.2 kV DC                                     |
| Protection class                        | Prepared for class II equipment               |
| Degree of protection                    | IP20 (acc. to EN 60529)                       |
| Overvoltage protection                  | < 40 VDC (in the event of a fault)            |
| Short circuit protection                | yes                                           |
| No-load proof                           | yes                                           |
| Feedback voltage                        | max. 30 VDC                                   |
| Parallel operation                      | yes                                           |
| Series connection                       | yes                                           |
| MTBF                                    | > 500000 h                                    |
| <b>Connection and type of mounting:</b> |                                               |
| Wire connection                         | Input/Output: WAGO 740 Series                 |
| Cross sections                          | Input/Output:                                 |
|                                         | 0.08 ... 2.5 mm² / AWG 28 ... 12              |
| Strip lengths                           | Input/Output:                                 |
|                                         | 6 ... 7 mm / 0.24 ... 0.28 in                 |
| Type of mounting                        | DIN-rail mount (EN 60715)                     |
| <b>Dimensions and weight:</b>           |                                               |
| Dimensions (mm) W x H x L               | 72 x 89 x 59                                  |
|                                         | Length: 55 mm, from upper-edge of DIN 35 rail |
| Weight                                  | 255 g                                         |
| <b>Standards and approvals:</b>         |                                               |
| Standards/Specifications                | EN 60950, EN 61204-3,                         |
|                                         | UL 60950, UL 508, GL                          |