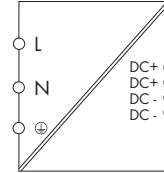


## Switched-Mode Power Supply

EPSITRON® ECO Power



- Primary switch mode power supply unit
- Prepared for class I equipment
- Natural convection cooling when horizontally mounted
- Enclosed for use in switchgear cabinets
- Parallel operation, series connection possible
- Electrically isolated output voltage (SELV) acc. to EN 60950-1/UL 60950

| Description                               | Item No. | Pack. Unit |
|---|----------|------------|
| Switched-Mode Power Supply, 24 VDC / 10 A | 787-732  | 1          |
|   |          |            |
|   |          |            |
|   |          |            |
|   |          |            |

| Technical Data                    |   |
|-----------------------------------|---|
| <b>Input:</b>                     |   |
| Nominal input voltage $V_i$ nom   | 110 ... 240 VAC   |
| Input voltage range               | 85 ... 264 VAC; 130 ... 373 VDC<br>(use of DC requires external protection)   |
| Frequency                         | 47 Hz ... 63 Hz   |
| Input current $I_i$               | 1.5 A typ. at 230 VAC;<br>3.0 A at 115 VAC  |
| Discharge current                 | < 3.5mA   |
| Inrush current                    | < 30 A  |
| Mains failure hold-up time        | > 20 ms at 230 VAC  |
| <b>Output:</b>                    |   |
| Nominal output voltage $V_o$ nom  | 24 VDC (SELV)   |
| Output voltage range              | 22 ... 28 VDC adjustable  |
| Output current $I_o$              | 10 A at 24 V DC   |
| Factory preset                    | 24 VDC  |
| Adjustment accuracy               | 1 %   |
| Residual ripple                   | < 100 mVpp to 20 MHz  |
| Overload behavior                 | Constant power (in overload range:<br>1.15 ... 1.4 x $I_o$ ); shutdown and automatic<br>restart in the event of a short circuit |
| Operational indication            | LED green (24 V DC o.k.),<br>LED red (overload)   |
| <b>Efficiency / power losses:</b> |   |
| Efficiency                        | 82 % typ.   |
| Power loss $P_V$                  | 37.5 W (at 230 VAC and 10 ADC)  |
| Max. power loss $P_V$             | 53 W (at 110 VAC and 11 ADC)  |
| <b>Fuse protection:</b>           |   |
| Internal fuse                     | F 5 A / 250 V   |
| External fuse                     | C10 or B16 circuit breakers<br>An external DC fuse is required for the DC<br>input voltage                                      |

| Technical Data                              |   |
|---|---|
| <b>Environmental requirements:</b>          |   |
| Ambient operating temperature               | -10 °C ... +70 °C   |
| Storage temperature                         | -25 °C ... +85 °C   |
| Rel. humidity                               | 95 % (no condensation)  |
| Derating                                    | -2.33 % / K (> 55 °C at 230 VAC)  |
| Degree of pollution                         | 2 (acc. to EN 50178)  |
| Climatic category                           | 3K3 (acc. to EN 60721)  |
| <b>Safety and protection:</b>               |   |
| Test voltage pri.-sec./ pri.-gr. / sec.-gr. | 3 kV AC / 1.5 kV AC / 0.5 kV AC   |
| Protection class                            | Prepared for class I equipment  |
| Degree of protection                        | IP20 acc. to EN 60529   |
| Overvoltage protection                      | via varistor at primary circuit   |
| Short circuit protection                    | yes   |
| No-load proof                               | yes   |
| Feedback voltage                            | 28 VDC  |
| Parallel operation                          | yes   |
| Series connection                           | yes   |
| MTBF  | 480000 h (acc. IEC 61709)   |
| <b>Connection and type of mounting:</b>     |   |
| Wire connection                             | CAGE CLAMP® (WAGO 745 Series)   |
| Cross sections                              | 0.08 mm <sup>2</sup> ... 4 mm <sup>2</sup> / AWG 28 ... 12<br>(THHN, THWN)  |
| Strip lengths                               | 8 ... 9 mm / 0.33 in  |
| Type of mounting                            | DIN-rail mount (EN 60715)   |
| <b>Dimensions and weight:</b>               |   |
| Dimensions (mm) W x H x L                   | 110 x 92 x 136  |
|   | Height from upper-edge of DIN 35 rail   |
| Weight                                      | 1200 g  |
| <b>Standards and approvals:</b>             |   |
| Standards/Specifications                    | EN 60950, EN 61000-6-2,<br>EN 61000-6-3, UL 60950, UL 508,<br>ANSI/ISA 12.12.01 (Class I Div.2)*,<br>ATEX*<br>(* pending) |