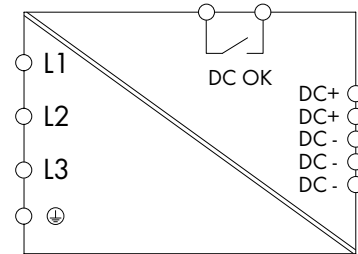


Switched-Mode Power Supply

EPSITRON® ECO Power



Features:

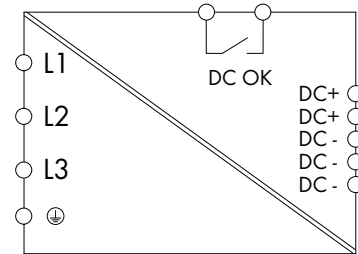
- Economical power supply for standard applications
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Fast and tool-free termination via lever-actuated terminals with push-in connection technology
- DC OK contact
- Parallel operation
- Electrically isolated output voltage (SELV) per EN 60950-1/ UL 60950-1; PELV per EN 60204-1

| Technical Data | |
|-------------------------------------|---|
| Input | |
| Nominal input voltage U_{1nom} | 400 ... 480 VAC |
| Input voltage range | 325 ... 575 VAC; 560 ... 700 VDC |
| Frequency | 47 ... 63 Hz |
| Input current I_1 | 3 x 2.5 A (at 400 VAC) |
| Input peak current | < 30 A (at 400 VAC) |
| Discharge current | < 3.5 mA |
| Power factor | ≥ 0.7 (at 400 VAC) |
| Mains failure hold-up time | > 10 ms (at 400 VAC and nominal load) |
| Output | |
| Nominal output voltage $U_{o, nom}$ | 24 VDC (default), SELV |
| Output voltage range | 24 ... 28 VDC adjustable |
| Adjustment accuracy | $\pm 1\%$ |
| Residual ripple | < 150 mVpp |
| Nominal output P_{out} | 960 W |
| Output current I_o | 40 A (at 24 VDC) |
| Overload behavior | Constant power (in overload range: 1.05 ... 1.4 x I_o); shutdown and automatic restart in the event of a short circuit |
| Efficiency/Power Loss | |
| Efficiency | $\geq 91.5\%$ (400 VAC / 24 VDC / 40 A) |
| Power loss P_v | typ. 89 W (at 400 VAC, 24 VDC, 40 A) |
| Fuse protection | |
| Internal fuse | 6.3 A, slow, 500 VAC |
| Recommended backup fuse | Power circuit breakers ≥ 10 A; B, C characteristics |
| Overvoltage protection | Via varistor at primary circuit |
| Environmental Requirements | |
| Ambient temperature | -25 ... +70 °C |
| Storage temperature | -40 ... +85 °C |
| Relative humidity | 10 ... 95 % |
| Climatic category | 3K3 (per EN 60721) |
| Derating | -2 %/K (>+45 °C) |
| Pollution degree | 2 |
| Overvoltage category | III |
| Temperature coefficient | $\pm 0.03\%$ /K (at 0 ... +50 °C) |
| MTBF | > 200,000 h |

| Description | Item No. | Pack Unit |
|---|--|-----------|
| EPSITRON® Switched-Mode Power Supply, ECO Power, 3-phase, output: 24 VDC/40 A | 787-2744 | 1 |
| Technical Data | | |
| Safety and Protection | | |
| Protection class | I | |
| Protection type | IP20 per EN EN 60529 | |
| Short-circuit-protection | Yes | |
| Open-circuit proof | Yes | |
| Feedback voltage | 30 V (max.) | |
| Parallel operation | Yes | |
| Series operation | Yes, max. 2 power supplies | |
| Vibration resistance | 1g (per EN 60068-2-6) | |
| Shock resistance | 15g (per EN 60068-2-27) | |
| Isolation voltage | 1.5 kVAC for input side and ground; 3.0 kVAC for input and output side; 0.5 kVAC for output side and ground; 0.5 kVAC for output side and DC OK contact | |
| SELV | per EN 60950-1 | |
| Connection and Mounting Type | | |
| Connection technology | CAGE CLAMP® (input/output); picoMAX® (signaling) | |
| Conductor range | Input/output: 0.5 ... 6 mm ² / AWG 20 ... 10 Signaling: 0.2 ... 1.5 mm ² / AWG 24 ... 14 | |
| Strip length | Input/output: 11 ... 12 mm / 0.43 ... 0.47 inch Signaling: 8 ... 9 mm / 0.31 ... 0.35 inch | |
| Dimensions and Weight | | |
| Dimensions (mm) W x H x L | 140 x 130 x 170, length from up-per-edge of DIN-rail | |
| Weight | 2630 g | |
| Standards/Approvals | | |
| Standards/approvals | CE; EN 60950-1; EN 61204-3; UL 60950*; UL 508* (*pending) | |

Switched-Mode Power Supply

EPSITRON® ECO Power



Features:

- Economical power supply for standard applications
- Natural convection cooling when horizontally mounted
- Enclosed for use in control cabinets
- Fast and tool-free termination via lever-actuated terminals with push-in connection technology
- DC OK contact
- Parallel operation
- Electrically isolated output voltage (SELV) per EN 60950-1/UL 60950-1; PELV per EN 60204-1

| Technical Data | |
|------------------------------------|---|
| Input | |
| Nominal input voltage U_{1nom} | 400 ... 480 VAC |
| Input voltage range | 325 ... 575 VAC; 560 ... 700 VDC |
| Frequency | 47 ... 63 Hz |
| Input current I_1 | 3 x 1.2 A (at 400 VAC) |
| Input peak current | < 30 A (at 400 VAC) |
| Discharge current | < 3.5 mA |
| Power factor | ≥ 0.7 (at 400 VAC) |
| Mains failure hold-up time | > 10 ms (at 400 VAC and nominal load) |
| Output | |
| Nominal output voltage $U_{o,nom}$ | 24 VDC (default), SELV |
| Output voltage range | 24 ... 28 VDC adjustable |
| Adjustment accuracy | $\pm 1\%$ |
| Residual ripple | < 150 mVpp |
| Nominal output P_{out} | 480 W |
| Output current I_o | 20 A (at 24 VDC) |
| Overload behavior | Constant power (in overload range: 1.05 ... 1.4 x I_o); shutdown and automatic restart in the event of a short circuit |
| Efficiency/Power Loss | |
| Efficiency | $\geq 90.5\%$ (400 VAC / 24 VDC / 20 A) |
| Power loss P_v | typ. 45 W (at 400 VAC, 24 VDC, 20 A) |
| Fuse protection | |
| Internal fuse | 3.15 A, slow, 500 VAC |
| Recommended backup fuse | Power circuit breakers ≥ 10 A; B, C characteristics |
| Overvoltage protection | Via varistor at primary circuit |
| Environmental Requirements | |
| Ambient temperature | -25 ... +70 °C |
| Storage temperature | -40 ... +85 °C |
| Relative humidity | 10 ... 95 % |
| Climatic category | 3K3 (per EN 60721) |
| Derating | -2 %/K (>+45 °C) |
| Pollution degree | 2 |
| Overvoltage category | III |
| Temperature coefficient | $\pm 0.03\%$ /K (at 0 ... +50 °C) |
| MTBF | > 200,000 h |

| Description | Item No. | Pack Unit |
|---|--|-----------|
| EPSITRON® Switched-Mode Power Supply, ECO Power, 3-phase, output: 24 VDC/20 A | 787-2742 | 1 |
| Technical Data | | |
| Safety and Protection | | |
| Protection class | I | |
| Protection type | IP20 per EN EN 60529 | |
| Short-circuit-protection | Yes | |
| Open-circuit proof | Yes | |
| Feedback voltage | 30 V (max.) | |
| Parallel operation | Yes | |
| Series operation | Yes, max. 2 power supplies | |
| Vibration resistance | 1g (per EN 60068-2-6) | |
| Shock resistance | 15g (per EN 60068-2-27) | |
| Isolation voltage | 1.5 kVAC for input side and ground; 3.0 kVAC for input and output side; 0.5 kVAC for output side and ground; 0.5 kVAC for output side and DC OK contact | |
| SELV | per EN 60950-1 | |
| Connection and Mounting Type | | |
| Connection technology | CAGE CLAMP® (input/output); picoMAX® (signaling) | |
| Conductor range | Input/output: 0.5 ... 6 mm ² / AWG 20 ... 10 Signaling: 0.2 ... 1.5 mm ² / AWG 24 ... 14 | |
| Strip length | Input/output: 11 ... 12 mm / 0.43 ... 0.47 inch Signaling: 8 ... 9 mm / 0.31 ... 0.35 inch | |
| Dimensions and Weight | | |
| Dimensions (mm) W x H x L | 80 x 130 x 170, length from upper-edge of DIN-rail | |
| Weight | 1710 g | |
| Standards/Approvals | | |
| Standards/approvals | CE; EN 60950-1; EN 61204-3; UL 60950*; UL 508* (*pending) | |

Switched-Mode Power Supply, 1-Phase EPSITRON® ECO Power

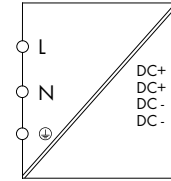


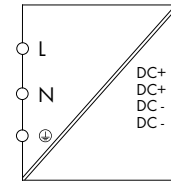
Abb. ähnlich

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

| Technical Data | |
|--|---|
| Input | |
| Nominal input voltage $U_{i, \text{nom}}$ | (100) 110 ... 240 VAC |
| Input voltage range | 90 ... 264 VAC, 125 ... 375 VDC |
| Frequency | 47 ... 63 Hz |
| Input current I_i | 3.0 A typ. at 100 VAC |
| Discharge current | < 3.5 mA |
| Inrush current | < 18 A |
| Mains failure hold-up time | > 10 ms at 230 VAC |
| Output | |
| Nominal output voltage $U_{o, \text{nom}}$ | 12 VDC (SELV) |
| Output voltage range | 10 ... 14 VDC, adjustable |
| Factory preset | 12 VDC |
| Output current I_o | 8 A at 12 VDC and 110 ... 240 VAC 6.4 A at 12 VDC and 100 ... 240 VAC |
| Adjustment accuracy | < 1 % |
| Residual ripple | < 150 mV (peak-to-peak) |
| Overload behavior | Constant power (in overload range: 1.05 ... 1.4 x I_o); shutdown and automatic restart in the event of a short circuit |
| Operation status indicator | Green LED (12 VDC OK) |
| Efficiency/Power Losses | |
| Efficiency | > 80 % (at 230 VAC and 8 ADC) |
| Fuse Protection | |
| Internal fuse | F 3.15 A / 250 V |
| Recommended backup fusing | Circuit breakers B6, B10; An external DC fuse is required for the DC input voltage. |

| Description | Item No. | Pack. Unit |
|--|--|------------|
| EPSITRON® Switched-Mode Power Supply; ECO Power; 1-phase; Output: 12 VDC/8 A | 787-1721 | 1 |
| Technical Data | | |
| Environmental Requirements | | |
| Ambient temperature | -20 ... +60 °C | |
| Storage temperature | -25 ... +70 °C | |
| Relative humidity | 20 ... 90 % (no condensation permissible) | |
| Derating | -3 % / K (> 40 °C) | |
| Overvoltage category | II | |
| Pollution degree | 2 (per EN 50178) | |
| Climatic category | 3K3 (per EN 60721) | |
| Safety and Protection | | |
| Test voltage | | |
| Pri.-Sec./Pri.-GND/Sec.-GND | 3 / 1.5 / 0.5 kVAC | |
| Protection class | I | |
| Protection type | IP20 per EN 60529 | |
| Overvoltage protection | Via varistor at primary circuit | |
| Short-circuit-protected | Yes | |
| Open-circuit-proof | Yes | |
| Feedback voltage | 14 VDC | |
| Parallel operation | Yes | |
| Series operation | Yes | |
| MTBF | > 300,000 h (per IEC 61709) | |
| Connection and Mounting Type | | |
| Connection technology | CAGE CLAMP® (WAGO 236 Series) | |
| Conductor range | 0.08 ... 2.5 mm ² / 28 ... 12 AWG (12 AWG: THHN, THWN) | |
| Strip length | 6 ... 7 mm / 0.24 ... 0.28 inch | |
| Mounting type | DIN-rail mount (EN 60715) | |
| Dimensions and Weight | | |
| Dimensions (mm) W x H x D | 60 x 130 x 90, depth from upper-edge of DIN-rail | |
| Weight | 550 g | |
| Installation width (as delivered) | 60 mm | |
| General Specifications | | |
| Standards/approvals | EN 60950, EN 61204-3, EN 60335, EN 61558-2-6, UL 508 * (*pending) | |

Switched-Mode Power Supply, 1-Phase EPSITRON® ECO Power



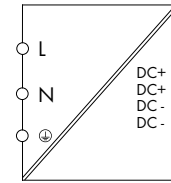
Similar to picture

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

| Technical Data | |
|--|--|
| Input | |
| Nominal input voltage $U_{1\text{nom}}$ | (100) 110 ... 240 VAC |
| Input voltage range | 90 ... 264 VAC, 125 ... 375 VDC |
| Frequency | 47 ... 63 Hz |
| Input current I_1 | 1.8 A typ. at 100 VAC |
| Discharge current | < 3.5 mA |
| Inrush current | < 18 A |
| Mains failure hold-up time | > 10 ms at 230 VAC |
| Output | |
| Nominal output voltage $U_{o\text{nom}}$ | 12 VDC (SELV) |
| Output voltage range | 10 ... 14 VDC, adjustable |
| Factory preset | 12 VDC |
| Output current I_o | 4 A at 12 VDC and 110 ... 240 VAC 3.2 A at 12 VDC and 100 ... 240 VAC |
| Adjustment accuracy | < 1 % |
| Residual ripple | < 150 mV (peak-to-peak) |
| Overload behavior | Constant power (in overload range: 1.05 ... 1.4 x I_o); shutdown and auto- matic restart in the event of a short circuit |
| Operation status indicator | Green LED (12 VDC OK) |
| Efficiency/Power Losses | |
| Efficiency | > 80 % (at 230 VAC and 4 ADC) |
| Fuse Protection | |
| Internal fuse | F 2 A / 250 V |
| Recommended backup fusing | Circuit breakers B6, B10; An external DC fuse is required for the DC input voltage. |

| Description | Item No. | Pack. Unit |
|--|---|------------|
| EPSITRON® Switched-Mode Power Supply; ECO Power; 1-phase; Output: 12 VDC/4 A | 787-1711 | 1 |
| Technical Data | | |
| Environmental Requirements | | |
| Ambient temperature | -20 ... +60 °C | |
| Storage temperature | -25 ... +70 °C | |
| Relative humidity | 20 ... 90 % (no condensation permissible) | |
| Derating | -4 % / K (> 45 °C) | |
| Overvoltage category | II | |
| Pollution degree | 2 (per EN 50178) | |
| Climatic category | 3K3 (per EN 60721) | |
| Safety and Protection | | |
| Test voltage | | |
| Pri.-Sec./Pri.-GND/Sec.-GND | 3 / 1.5 / 0.5 kVAC | |
| Protection class | I | |
| Protection type | IP20 per EN 60529 | |
| Overvoltage protection | Via varistor at primary circuit | |
| Short-circuit-protected | Yes | |
| Open-circuit-proof | Yes | |
| Feedback voltage | 14 VDC | |
| Parallel operation | Yes | |
| Series operation | Yes | |
| MTBF | > 300,000 h (per IEC 61709) | |
| Connection and Mounting Type | | |
| Connection technology | CAGE CLAMP® (WAGO 236 Series) | |
| Conductor range | 0.08 ... 2.5 mm ² / 28 ... 12 AWG (12 AWG: THHN, THWN) | |
| Strip length | 6 ... 7 mm / 0.24 ... 0.28 inch | |
| Mounting type | DIN-rail mount (EN 60715) | |
| Dimensions and weight | | |
| Dimensions (mm) W x H x D | 40 x 90 x 99, depth from upper-edge of DIN-rail | |
| Weight | 550 g | |
| Installation width (as delivered) | 40 mm | |
| General Specifications | | |
| Standards/approvals | EN 60950, EN 61204-3, EN 60335, EN 61558-2-6, UL 508 * (*pending) | |

Switched-Mode Power Supply, 1-Phase EPSITRON® ECO Power



Similar to picture

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- Suitable for both parallel and series operation
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- DIN-35 rail mountable in different positions
- Direct installation on mounting plate via cable grip

| Technical Data | |
|--|---|
| Input | |
| Nominal input voltage $U_{1\text{nom}}$ | (100) 110 ... 240 VAC |
| Input voltage range | 90 ... 264 VAC, 125 ... 375 VDC |
| Frequency | 47 ... 63 Hz |
| Input current I_i | 0.7 A typ. at 100 VAC |
| Discharge current | < 3.5 mA |
| Inrush current | < 18 A |
| Mains failure hold-up time | > 10 ms at 230 VAC |
| Output | |
| Nominal output voltage $U_{o\text{nom}}$ | 12 VDC (SELV) |
| Output voltage range | 10 ... 14 VDC, adjustable |
| Factory preset | 12 VDC |
| Output current I_o | 2 A at 12 VDC and 110 ... 240 VAC |
| | 1.6 A at 12 VDC and 100 ... 240 VAC |
| Adjustment accuracy | < 1 % |
| Residual ripple | < 150 mV (peak-to-peak) |
| Overload behavior | Constant power (in overload range: 1.05 ... 1.4 x I_o); shutdown and automatic restart in the event of a short circuit |
| Operation status indicator | Green LED (12 VDC OK) |
| Efficiency/Power Losses | |
| Efficiency | > 80 % (at 230 VAC and 2 ADC) |
| Fuse Protection | |
| Internal fuse | F 1 A / 250 V |
| Recommended backup fusing | Circuit breakers B6, B10; An external DC fuse is required for the DC input voltage. |

| Description | Item No. | Pack. Unit |
|--|---|------------|
| EPSITRON® Switched-Mode Power Supply; ECO Power; 1-phase; Output: 12 VDC/2 A | 787-1701 | 1 |
| Technical Data | | |
| Environmental Requirements | | |
| Ambient temperature | -20 ... +60 °C | |
| Storage temperature | -25 ... +70 °C | |
| Relative humidity | 20 ... 90 % (no condensation permissible) | |
| Derating | -4 % / K (> 45 °C) | |
| Overvoltage category | II | |
| Pollution degree | 2 (per EN 50178) | |
| Climatic category | 3K3 (per EN 60721) | |
| Safety and Protection | | |
| Test voltage | | |
| Pri.-Sec./Pri.-GND/Sec.-GND | 3 / 1.5 / 0.5 kVAC | |
| Protection class | I | |
| Protection type | IP20 per EN 60529 | |
| Overvoltage protection | Via varistor at primary circuit | |
| Short-circuit-protected | Yes | |
| Open-circuit-proof | Yes | |
| Feedback voltage | 14 VDC | |
| Parallel operation | Yes | |
| Series operation | Yes | |
| MTBF | > 300,000 h (per IEC 61709) | |
| Connection and Mounting Type | | |
| Connection technology | CAGE CLAMP® (WAGO 236 Series) | |
| Conductor range | 0.08 ... 2.5 mm ² / 28 ... 12 AWG (12 AWG: THHN, THWN) | |
| Strip length | 6 ... 7 mm / 0.24 ... 0.28 inch | |
| Mounting type | DIN-rail mount (EN 60715) | |
| Dimensions and Weight | | |
| Dimensions (mm) W x H x D | 30 x 90 x 99, depth from upper-edge of DIN-rail | |
| Weight | 550 g | |
| Installation width (as delivered) | 30 mm | |
| General Specifications | | |
| Standards/approvals | EN 60950, EN 61204-3, EN 60335, EN 61558-2-6, UL 508 * (*pending) | |