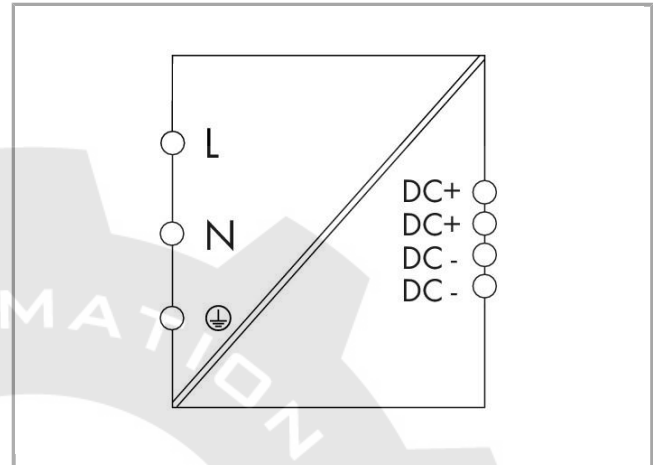


Data sheet | Item number: 787-612

Switched-mode power supply; Classic; 1-phase; 24 VDC output voltage; 2.5 A output current

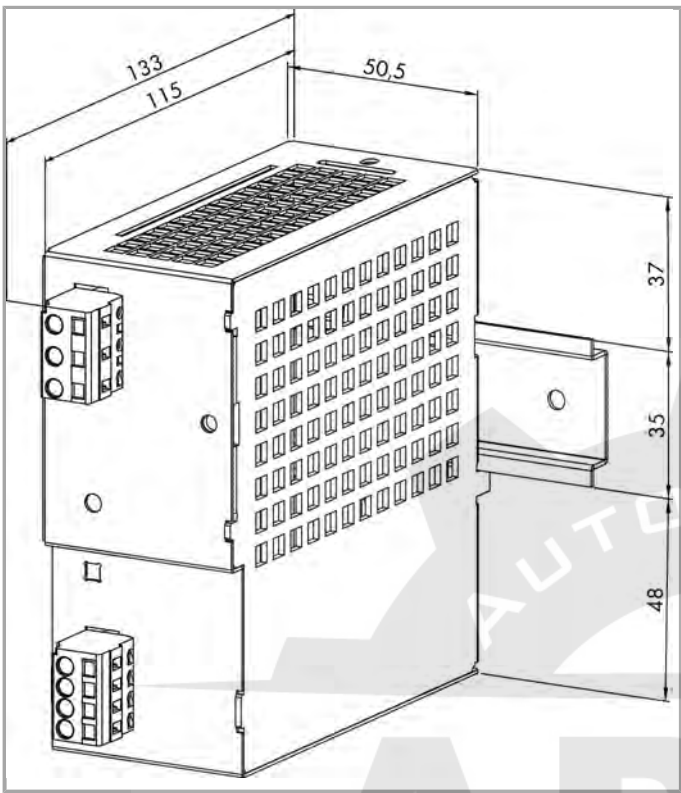


787-612



RoHS Compliant

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Item description

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

Data
Technical Data

Input

Phases	1
Nominal input voltage $U_{i\,nom}$	AC 100 ... 240 V; DC 140 ... 300 V
Input voltage range	AC 90 ... 264 V; DC 130 ... 300 V
Nominal mains frequency range	50 ... 60 Hz; 0 Hz
Input current I_i	$\leq 0.6\text{ A}$ (230 VAC)
Discharge current	$\leq 0.7\text{ mA}$
Inrush current	$\leq 50\text{ A}$
Power factor correction (PFC)	Passive

Mains failure hold-up time	≥ 20 ms (230 VAC)
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Output

Nominal output voltage $U_{o\ nom}$	DC 24 V (SELV)
Output voltage range	DC 22 ... 28.8 V (adjustable)
Factory preset	DC 24 V
Nominal output current $I_{o\ nom}$	2.5 A (24 VDC)
Adjustment accuracy	≤ 2 %
Residual ripple	≤ 100 mV (peak-to-peak)
Current limitation	$1.1 \times I_{o\ nom}$ typ.
Overload behavior	Constant current

Signaling and communication

Operation status indicator	LED green (24 V OK)
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Efficiency/Power losses:

Power loss P_v	≤ 7 W (230 VAC; no load)
Max. power loss $P_{v\ max.}$	8 W (90 VAC / 24 VDC; 2.5 A)
Efficiency	90 %

Fuse protection:

Internal fuse	T 1.6 A / 250 VACAC
External fuse (required)	an external DC fuse required for DC input voltage
External fuse (recommended)	Circuit breakers C10, B16

Safety and protection:

Insulation voltage (PRI-SEC)	4.242 kV DC
Isolation voltage (PRI-GND)	2.2 kV DC
Insulation voltage (SEC-GND)	0.7 kV DC
Protection class	I
Protection class	IP20 (per EN 60529)
Feedback voltage	≤ DC 30 V
Transient protection, primary	Varistor
Overvoltage protection, secondary	Internal protective circuit ≤ 40 VDC (in case of an error)
Short circuit protection	Yes
No-load proof	Yes
Parallel operation	Yes

Series connection	Yes
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Connection data

Connection type (1)	Input/Output
Connection technology	CAGE CLAMP®
WAGO terminal	WAGO 231 Series
Solid conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm² / 28 ... 12 AWG
Strip length	8 ... 9 mm / 0.31 ... 0.35 inch
Note (conductor cross-section)	12 AWG: THHN, THWN

Geometrical Data

Width	51 mm / 2.008 inch
Height from upper-edge of DIN-35 rail	133 mm / 5.236 inch
Length from upper-edge of DIN-35 rail	120 mm / 4.724 inch

Mechanical data

Type of mounting	DIN-35 rail (EN 60715)
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Material Data

Fire load	4.4 MJ
Weight	612.7 g

Environmental Requirements

Surrounding air (operating) temperature	-10 ... 70 °C
Surrounding air (storage) temperature	-25 ... 85 °C
Relative humidity	30 ... 85 % (no condensation permissible)
Derating	-3 %/K (> 50 °C)
Pollution degree	2
Climatic category	3K3 (per EN 60721)

Standards and specifications

Conformity marking	1
Standards/specifications	EN 60950-1; EN 61204-3; UL 60950; UL 508; GL

Commercial data

Product Group	6 (Interface Electronics)
Country of origin	DE
GTIN	4045454435202

Customs Tariff No.

85044082900

Approvals / Certificates

UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	UL Underwriters Laboratories Inc.	UL 508	E255817
	UL Underwriters Laboratories Inc.	UL 60950-1	E255815

Downloads

Documentation

Bid Text

787-612	Apr 4, 2012	doc 32.8 kB	Download
Stromversorgung EPSITRON			

Instruction Leaflet

Primary Switch Mode Power Supply EPSITRON-CLASSIC-Power	pdf 248.2 kB	Download
24 VDC, 2.5 A		

Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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CAD/CAE - Smart Data

CAD data

3D Download 787-612	URL	Download
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Product family

EPSITRON CLASSIC Power

EPSITRON® CLASSIC POWER: The Robust Power Supply – with Integrated TopBoost (Optional)

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