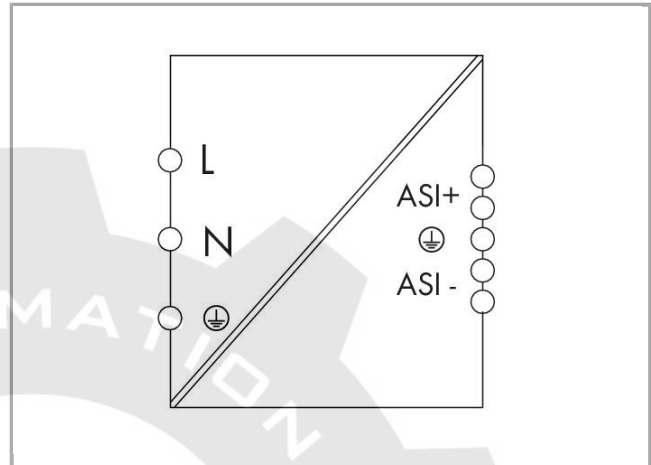


Data sheet | Item number: 787-692

Switched-mode power supply; Classic; 1-phase; Output voltage: 30.5 VDC; 3 A output current

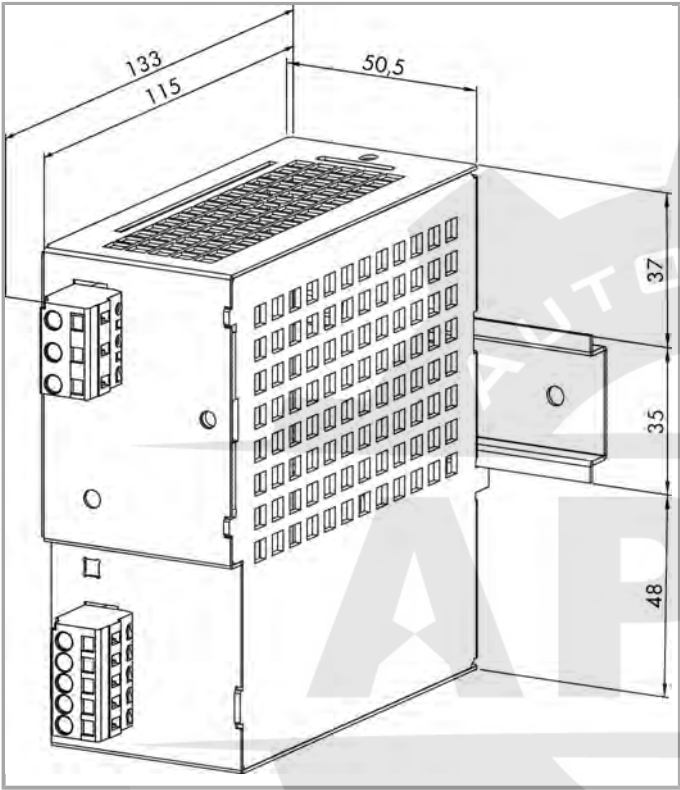


787-692





RoHS  Compliant 



Item description

- Primary switch mode power supply unit
- Supplies AS-Interface fieldbus systems
- Minimum conductor size acc. to AS-Interface specification: 1.5 mm²
- 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 85 ... 264 V; DC 120 ... 300 V
Nominal mains frequency range	50 ... 60 Hz; 0 Hz
Input current I_i	≤ 0.8 A (230 VAC); ≤ 1.4 A (115 VAC)
Discharge current	≤ 0.6 mA
Inrush current	≤ 50 A
Power factor correction (PFC)	Passive
Mains failure hold-up time	≥ 50 ms (230 VAC)

Output

Nominal output voltage $U_{o\ nom}$	DC 30.5 V (SELV)
Output voltage range	DC 26 ... 33 V (adjustable)
Factory preset	DC 30.5 V
Nominal output current $I_{o\ nom}$	3 A (30.5 VDC)
Adjustment accuracy	≤ 3 %
Mains/load regulation	≤ 2.5 %
Residual ripple	≤ 300 mV (peak-to-peak, < 10 kHz); ≤ 50 mV (peak-to-peak; 10 kHz ... 20 MHz)
Current limitation	$1.1 \times I_{o\ nom}$ typ.
Overload behavior	Constant current

Signaling and communication

Operation status indicator	LED green (30.5 V OK)
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Efficiency/Power losses:

Power loss P_v	≤ 9 W (230 VAC; no load)
Max. power loss $P_{v\ max.}$	14.2 W (264 VAC / 30.5 VDC; 3 A)
Efficiency	89 %

Fuse protection:

Internal fuse	T 4 A / 250 VAC
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 40 V
Transient protection, primary	Varistor
Overvoltage protection, secondary	Internal protective circuit ≤ 48 VDCDC (in case of an error)
Short circuit protection	Yes
No-load proof	Yes
Parallel operation	No
Series connection	No

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

Weight	650 g
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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	CE
Standards/specifications	EN 60950-1; EN 61204-3; EN 61204-7; UL 60950; UL 508; GL

Commercial data

Country of origin	DE
GTIN	4045454448097
Customs Tariff No.	85044082900

Downloads

Documentation

Bid Text

787-692	Apr 4, 2012	doc	Download
Stromversorgung EPSITRON		34.8 kB	

Instruction Leaflet

Primary Switch Mode Power Supply EPSITRON-CLASSIC-Power for AS-Interface	pdf	Download
30.5 VDC, 3 A	220.9 kB	

Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf	Download
		265.8 kB	

CAD/CAE - Smart Data

CAD data

3D Download 787-692	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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Subject to changes.
