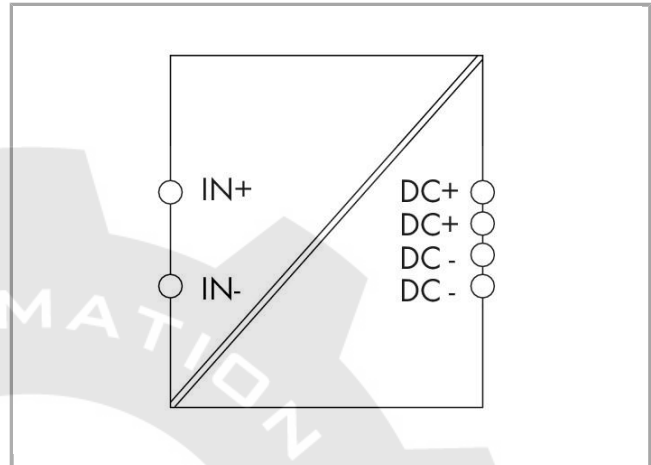


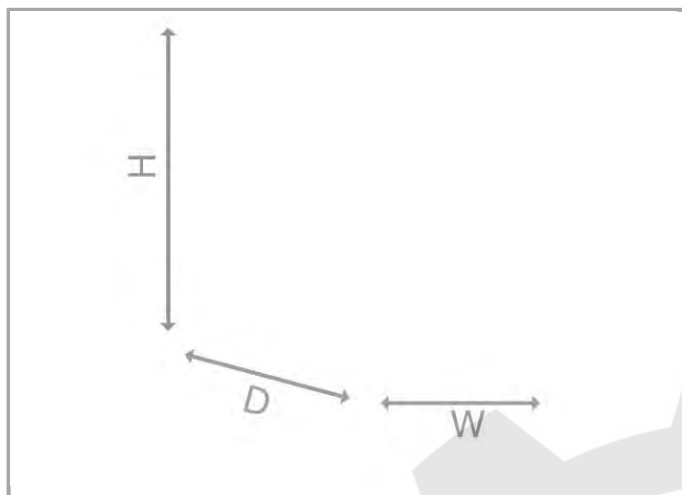
Data sheet | Item number: 787-1015/072-000

DC/DC Converter; EPSITRON® COMPACT Power; 72 VDC input voltage; 12 VDC output voltage; 4 A output current; galvanically isolated



787-1015/072-000





Item description

Features:

- Switched-mode power supply
- Natural convection cooling when horizontally mounted
- Stepped profile, ideal for distribution boards or distribution boxes
- Suitable for both parallel and series operation
- Electrically isolated output voltage (SELV) per EN 60950-1
- Control deviation: $\pm 1\%$ ($\pm 10\%$ within the application range of EN 50121-3-2)
- Suitable for Railway Applications

Data

Technical Data

Input

Nominal input voltage $U_{i\text{ nom}}$	DC 72 V
Input voltage range	DC 40 ... 90 V
Nominal mains frequency range	0 Hz
Input current I_i	$\leq 0.79\text{ A}$ (72 VDC)
Discharge current	$\leq 1\text{ mA}$
Inrush current	$\leq 30\text{ A}$ (NTC)
Mains failure hold-up time	$\geq 8\text{ ms}$ (72 VDC)

Output

Nominal output voltage $U_{o\text{ nom}}$	DC 12 V (SELV)
Factory preset	DC 12 V
	4 A (24 VDC); 3.1 A (in any mounting position)

Nominal output current $I_{o\ nom}$	
Nominal output power	48 W
Adjustment accuracy	$\leq 1\ %$
Residual ripple	$\leq 100\ mV$ (peak-to-peak)
Current limitation	$1.1 \times I_{o\ nom}$ typ.
Overload behavior	Constant current

Signaling and communication

Signaling	1 x LED operation status indicator (green)
Operation status indicator	LED green (U_o)

Efficiency/Power losses:

Power loss P_v	$\leq 1.2\ W$ (72 VDC; no load); $\leq 8.6\ W$ (72 VDC; nominal load)
Max. power loss $P_{v\ max.}$	9.7 W (40 VDC / 12 VDC; 4 A)
Efficiency	85 %

Fuse protection:

Internal fuse	T 4 A / 125 VDC
External fuse (recommended)	Circuit breakers 6 A, 10 A, characteristic: B or C

Safety and protection:

Insulation voltage (PRI-SEC)	4.242 kV DC
Protection class	II
Protection class	IP20 (per EN 60529)
Feedback voltage	$\leq DC\ 20\ V$
Overvoltage category	II
Transient protection, primary	Varistor
Overvoltage protection, secondary	Internal protection VDCe circuit $\leq 21.5\ VDCDC$ (in case of an error)
Short circuit protection	Yes
No-load proof	Yes
Parallel operation	Yes
Series connection	Yes
MTBF	> 500,000 h (per IEC 61709)

Connection data

Connection type (1)	Input/Output
Connection technology	CAGE CLAMP®

WAGO terminal	WAGO 740 Series
Solid conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Fine-stranded conductor	0.08 ... 2.5 mm ² / 28 ... 12 AWG
Strip length	6 ... 7 mm / 0.24 ... 0.28 inch

Geometrical Data

Width	72 mm / 2.835 inch
Height	89 mm / 3.504 inch
Depth	59 mm / 2.323 inch
Length from upper-edge of DIN-35 rail	55 mm / 2.165 inch

Mechanical data

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

Flammability class per UL94	V0
Weight	235 g

Environmental Requirements

Surrounding air (operating) temperature	-40 ... 70 °C
Surrounding air (storage) temperature	-40 ... 85 °C
Relative humidity	5 ... 96 % (coated PCB)
Derating	-1.5 %/K (> 55 °C)
Pollution degree	2
Climatic category	3K3 (per EN 60721)
Shock and vibration resistance	Category 1, Class B (per EN 61373:2010)

Standards and specifications

Conformity marking	1
Standards/specifications	EN 60950; EN 61204-3; EN 50121-3-2; EN 50125

Commercial data

Country of origin	DE
GTIN	4055143621502
Customs Tariff No.	85044082900

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Documentation

Bid Text



787-1015/072-000

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Subject to changes.