

**PRO TOPDC 24V/24V 10A****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



PROtop DCDC converters are used for safe electrical isolation to avoid ground loops that can occur when supplying field devices in production or process plants. DCDC converters can be used on long supply lines to refresh the supply voltage. The integrated ORing MOSFET reliably decouples possible internal short circuits. It allows direct parallel connection of ACDC and DCDC converters of the PROtop series for redundancy purposes or to increase power. This makes the use of the otherwise common diode or redundancy modules obsolete. Furthermore, PROtop DCDC converters feature the powerful DCL technology – and their communication module allows full data transparency and remote control.

**General ordering data**

Version	DC/DC converter
Order No.	<a href="#">2627640000</a>
Type	PRO TOPDC 24V/24V 10A
GTIN (EAN)	4050118661583
Qty.	1 pc(s).

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## Technical data

### Dimensions and weights

Depth	125 mm	Depth (inches)	4.921 inch
Height	130 mm	Height (inches)	5.118 inch
Width	43 mm	Width (inches)	1.693 inch
Net weight	1,000 g		

### Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...70 °C
Humidity at operating temperature	5...95 %, no condensation		

### Input

Connection system	PUSH IN with actuator		
Current consumption in relation to the input voltage	Voltage type	DC	
	Input voltage	24 V	
	Input current	11 A	
	Voltage type	DC	
	Input voltage	18 V	
	Input current	15 A	
DC input voltage range	14 V...31.2 V (linear Derating from 18 V...14 V, 60% rated load @ U <sub>in</sub> 14 V)		
Input fuse (internal)	Yes		
Input voltage, max.	31.2 V		
Input voltage, min.	14 V		
Inrush Current Limitation	Yes		
Inrush current	Max. 10 A		
Nominal power consumption	263.7 VA		
Rated input voltage	24 V DC		

### Output

Capacitive load	unrestricted		
Connection system	PUSH IN with actuator		
DCL - peak load reserve	Boost duration	15 ms	
	Multiple of the rated current	600 %	
	Boost duration	5 s	
	Multiple of the rated current	200 %	
Mains failure bridge-over time	Mains failure bridge-over time, min.	10 ms	
	Input voltage type	DC	
	Input voltage	24 V	
	Output current	10 A	
	Output voltage	24 V	
Nominal output current for U <sub>nom</sub>	10 A @ 60 °C		
Output power	240 W		
Output voltage, max.	28.8 V		
Output voltage, min.	22.5 V		
Output voltage, note	adjustable with potentiometer or communication module		
Parallel connection option	yes, max 10		
Protection against inverse voltage	Yes		
Ramp-up time	≤ 100 ms		
Rated output voltage	24 V DC ± 1 %		
Residual ripple, breaking spikes	< 40 mV <sub>pp</sub> @25 °C		

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### General data

Conformal coating	No	Degree of efficiency	91%
Derating	> 60°C (2.5% / 1°C)	Housing version	Metal, corrosion resistant
Mounting position, installation notice	Horizontal on DIN rail TS 35, top and bottom 50 mm clearance for free air flow, 10 mm clearance to neighbouring active subassemblies with full load, 5 mm with passive neighbouring subassemblies, direct row mounting with 90% rated load	Power loss, idling	5 W
Power loss, nominal load	23.7 W	Protection degree	IP20
Short-circuit protection	Yes	Start-up	≥ -40 °C
Surge voltage category	I, II, III		

### EMC / shock / vibration

Interference immunity test acc. to	EN 55032:2015, EN 55035:2017, EN 61000-6-1:2007, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011, EN 61000-6-4:2007/A1:2011, IEC 61000-4-2, IEC 61000-4-3, DIN EN 61000-4-4, EN 61000-4-5:2005, EN 61000-4-6:2008, IEC 61000-4-8	Noise emission in accordance with EN55032	
Shock resistance IEC 60068-2-27	30 g in all directions	Vibration resistance IEC 60068-2-6	Class B 2.3 g (on DIN rail), 4 g (with direct mounting)

### Insulation coordination

Insulation voltage input / earth	1.41 kV	Insulation voltage output / earth	0.7 kV
Insulation voltage, input/output	1.41 kV	Protection class	III, with no ground connection, for SELV
Surge voltage category	I, II, III		

### Electrical safety (applied standards)

Electrical machine equipment	Acc. to EN60204	For use with electronic equipment	Acc. to EN50178 / VDE0160
Protection against dangerous shock currents	Acc. to VDE0106-101	Protective separation / protection against electrical shock	VDE0100-410 / acc. to DIN57100-410
Safety extra-low voltage	SELV acc. to IEC 60950-1, PELV according to EN 60204-1	Safety transformers for switch-mode power supplies	According to EN 61558-2-17

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### Connection data (input)

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	20
Conductor cross-section, flexible , min.	0.5 mm <sup>2</sup>	Conductor cross-section, rigid , max.	1.5 mm <sup>2</sup>
Conductor cross-section, rigid , min.	0.5 mm <sup>2</sup>	Connection system	PUSH IN with actuator
Wire connection cross section, flexible (input), max.	2.5 mm <sup>2</sup>		

### Connection data (output)

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , max.	2.5 mm <sup>2</sup>	Conductor cross-section, flexible , min.	0.2 mm <sup>2</sup>
Conductor cross-section, rigid , max.	2.5 mm <sup>2</sup>	Conductor cross-section, rigid , min.	0.2 mm <sup>2</sup>
Connection system	PUSH IN with actuator	Number of terminals	4 ( ++ / - )

### Connection data (signal)

Wire connection method	PUSH IN	Wire cross-section, AWG/kcmil , max.	16
Wire cross-section, AWG/kcmil , min.	26	Wire cross-section, solid , max.	1.5 mm <sup>2</sup>
Wire cross-section, solid , min.	0.14 mm <sup>2</sup>		

### Signalling

Floating contact	LED green/red	Green: Operation (failure-free), Flashing green: advance warning I>90%, Green/red flashing: output switched off (switch-off mode), Flashing red: overload/error
Status relay (max. load)	Yes Output voltage OK (30 V DC / 1 A)	

### Approbations

Certificate No. (CSA)	80043367	Institute (CSA)	CSA
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### Classifications

ETIM 6.0	EC002540	ETIM 7.0	EC002540
ETIM 8.0	EC002540	ETIM 9.0	EC002540
ECLASS 9.0	27-04-07-01	ECLASS 9.1	27-04-07-01
ECLASS 10.0	27-04-07-01	ECLASS 11.0	27-04-07-01
ECLASS 12.0	27-04-07-01	ECLASS 13.0	27049002

### Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	6d8cdf22-8230-4af8-86c8-3558c716666d

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### Approvals

Approvals



ROHS

Conform

### Downloads

Approval/Certificate/Document of Conformity

- [Lloyds Register Certificate](#)
- [DNV Certificate.pdf](#)
- [RINA Certificate.pdf](#)
- [CSA 61010-1 Certificate.pdf](#)
- [C1D2 Certificate.pdf](#)
- [Declaration of Conformity](#)

Engineering Data

[CAD data – STEP](#)

User Documentation

- [IO-Link Register Description PROtop](#)
- [Instruction Sheet](#)

Catalogues

[Catalogues in PDF-format](#)

**Data sheet**

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**Drawings**

