

PRO DCDC 96W 24V/12V 8A**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



The DC/DC converter compensates for voltage fluctuations, such as those that occur with unregulated power supplies or long cables. With galvanic isolation and protection class III for earth-free systems, the DC/DC converter is particularly suitable for use in independent supply systems. The space-saving module can optimally convert voltage levels, offers above-average power performance, comprehensive safety functions, and a high efficiency of up to 95 %.

General ordering data

Version	DC/DC converter
Order No.	2869010000
Type	PRO DCDC 96W 24V/12V 8A
GTIN (EAN)	4064675620839
Qty.	1 pc(s).

PRO DCDC 96W 24V/12V 8A
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data
Dimensions and weights

Depth	120 mm	Depth (inches)	4.724 inch
Height	130 mm	Height (inches)	5.118 inch
Width	32 mm	Width (inches)	1.26 inch
Net weight	640 g		

Temperatures

Storage temperature	-45 °C...85 °C	Operating temperature	-25 °C...70 °C
Humidity at operating temperature	5 - 95% rel. humidity	Start-up	≥ -40 °C

Input

Connection system	Screw connection: pluggable		
Current consumption in relation to the input voltage	Voltage type	DC	
	Input voltage	24 V	
	Input current	4.5 A	
DC input voltage range	18 ... 34 V DC		
Input fuse (internal)	15A T		
Input voltage, max.	34 V		
Input voltage, min.	18 V		
Inrush current	<4 A @ Nominal input voltage		
Rated input voltage	24 V DC		
Recommended back-up fuse	10 A (DI) / 6A...10A (Char. B, C)		
Wire connection method	Screw connection		

Output

Capacitive load	unrestricted		
Connection system	Screw connection		
Continuous output current @ $U_{Nominal}$	8 A @ 60°C, 10 A @ 45°C, 6 A @ 70°C		
DCL - peak load reserve	Boost duration	15 ms	
	Multiple of the rated current	600 %	
Mains failure bridge-over time	Mains failure bridge-over time, min.	5 ms	
	Input voltage type	DC	
	Input voltage	24 V	
	Output current	8 A	
	Output voltage	12 V	
Nominal output current for U_{nom}	8 A		
Output power	96 W		
Output voltage, max.	15 V		
Output voltage, min.	5 V		
Output voltage, note	(adjustable via potentiometer on front)		
Overload protection	Yes		
Parallel connection option	yes, max. 3		
Protection against inverse voltage	Yes		
Rated output voltage	12 V DC		
Residual ripple, breaking spikes	≤ 20 mVPP @full load		
Wire connection method	Screw connection		

PRO DCDC 96W 24V/12V 8A

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

General data

Adjacent	No	Current limiting	150% I _{out}
Degree of efficiency	> 89 %	Mounting position, installation notice	On TS 35 mounting rail, 50 mm clearance above and below for free air supply. With a load ≥ 50 % of the rated current, keep at least 15 mm lateral spacing. The device should be mounted vertically. For other mounting directions, derating to 75% of the load must be considered.
Protection against reverse voltages from the load	18 V DC	Protection degree	IP20
Short-circuit protection	Yes	Surge voltage category	II

EMC / shock / vibration

Noise emission in accordance with EN55032	Class B	Shock resistance IEC 60068-2-27	30 g in all directions
Vibration resistance IEC 60068-2-6	0.7 g		

Insulation coordination

Insulation voltage input / earth	2 kV	Insulation voltage output / earth	0.5 kV
Insulation voltage, input/output	4 kV	Pollution severity	2
Protection class	III	Surge voltage category	II

Electrical safety (applied standards)

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 transformers for switch-mode power supplies	According to EN 61558-2-16

Connection data (input)

Conductor cross-section, AWG/kcmil , max.	12 AWG	Conductor cross-section, AWG/kcmil , min.	30 AWG
Conductor cross-section, flexible , min.	0.2 mm ²	Conductor cross-section, rigid , max.	4 mm ²
Conductor cross-section, rigid , min.	0.2 mm ²	Connection system	Screw connection: plug-gable
Number of terminals	2 (+,-)	Screwdriver blade	0.6 x 3.5, PH 1, PZ 1
Tightening torque, max.	0.5 Nm	Tightening torque, min.	0.4 Nm
Wire connection cross section, flexible (input), max.	4 mm ²		

Connection data (output)

Conductor cross-section, AWG/kcmil , max.	14 AWG	Conductor cross-section, AWG/kcmil , min.	24 AWG
Conductor cross-section, flexible , max.	2.5 mm ²	Conductor cross-section, flexible , min.	0.2 mm ²
Conductor cross-section, rigid , max.	2.5 mm ²	Conductor cross-section, rigid , min.	0.2 mm ²
Connection system	Screw connection	Number of terminals	4 (++) / -)
Screwdriver blade	0.6 x 3.5	Tightening torque, max.	0.5 Nm
Tightening torque, min.	0.4 Nm		

Creation date November 26, 2024 12:22:23 PM CET

Catalogue status 26.11.2024 / We reserve the right to make technical changes.

PRO DCDC 96W 24V/12V 8A

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Technical data

Connection data (signal)

Number of terminals	5	Wire connection cross-section, flexible (signal), max.	1.5 mm ²
Wire connection cross-section, flexible (signal), min.	0.2 mm ²	Wire connection method	PUSH IN
Wire cross-section, AWG/kcmil, max.	14	Wire cross-section, AWG/kcmil, min.	28 mm ²
Wire cross-section, solid, max.	1.5 mm ²	Wire cross-section, solid, min.	0.2 mm ²

Signalling

Contact load (NO contact)	max. 30 V DC / 0.5 A, max. 50 V AC / 0.3 A	Floating contact	Yes
Transistor output, positive-switching	DC OK: 20 mA max., short-circuit-proof, I > 90%: 20 mA max., short-circuit-proof, Low U _{IN} : 20 mA max., short-circuit-proof		

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	27-04-90-02
ECLASS 14.0	27-04-07-01		

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	832efd73-195b-4198-ad0c-1126d0bc238d

Approvals

Approvals



ROHS Conform

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
Engineering Data	CAD data – STEP
User Documentation	Instruction sheets
Catalogues	Catalogues in PDF-format

