

DC/DC converters



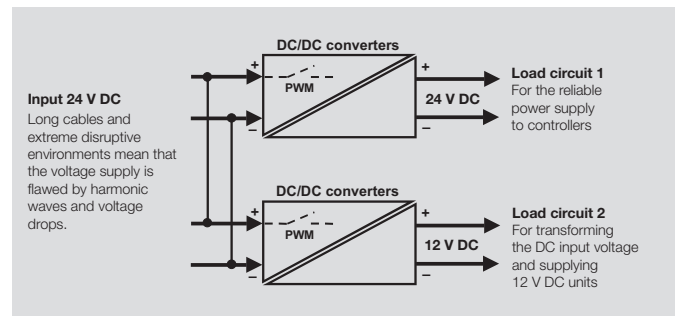
If there is no regulated and stable DC voltage available to supply sensitive equipment, DC/DC converters can guarantee a stabilised voltage. To a certain extent, other voltage levels are generated at the output; consequently, DC/DC converters can also be utilised for converting to other voltage levels. Electrical isolation of the input and output ensures reliable and safe separation of the circuits. The status of the output is reliably indicated by means of a status LED.

DC/DC converters

DC/DC converters are particularly suitable for decentralised power supplies to circuitry, subassemblies and modules. DC/DC converters are often required in emergency power supplies supplying electrical devices from batteries and other DC systems.

DC/DC converters for supplying sensitive loads for example, PLCs, mini controllers etc.

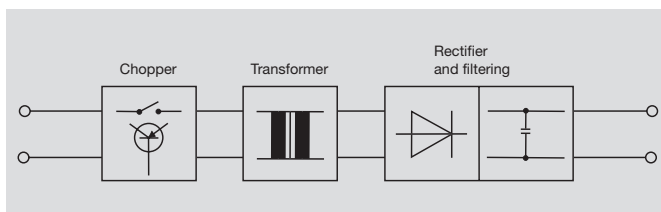
Power supply to loads with different voltage levels



It is possible to supply both sides of an analogue coupling module with the help of a DC/DC converter without neutralising the electrical isolation. Weidmüller's DC/DC converters are available in housings suitable for mounting on DIN rails.

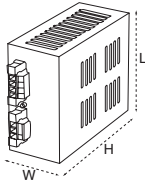
Method of operation

DC/DC converters are a variation on switched-mode regulators. The DC current at the input is chopped with the switching frequency and brought up to the required voltage by a transformer. The voltage is then rectified, smoothed and regulated.



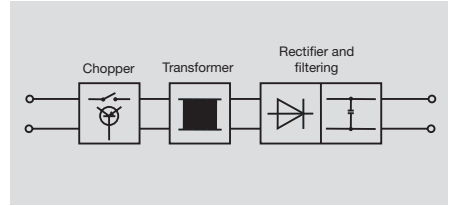
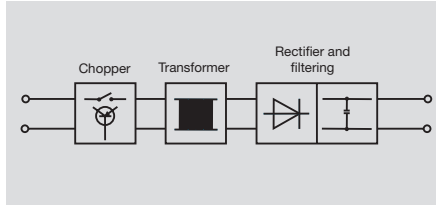
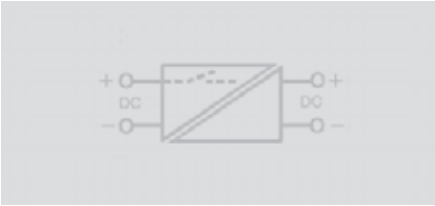
DC/DC converters

connectPower



CP DCDC 50 W 22-24 V DC 2 A

CP DCDC 50 W 15 V DC 3 A



E

Technical data

Input

Input voltage
Input fuse

Output

Output voltage
Output current
Overload behaviour

General data

Operating temperature
Storage temperature
Status indication
Switching frequency
Approvals

18...30 V DC, typ. 24 V DC
internal

22...24 V DC
2 A

Surge cut-out with self-reset

0 °C...+40 °C max. full rate load
-40 °C...+85 °C
green LED
200 kHz
CSA / UL/UR / CE

18...30 V DC, typ. 24 V DC
internal

15 V DC
3 A

Surge cut-out with self-reset

0 °C...+40 °C max. full rate load
-40 °C...+85 °C
green LED
200 kHz
CSA / UL/UR / CE

Clamping range (rating- / min. / max.) mm²
Length x width x height mm

Note

Screw connection

4 / 0.1 / 4
131 x 57 x 98

Screw connection

4 / 0.1 / 4
131 x 57 x 98

Ordering data

Connection system

Screw connection

Type	Qty.	Order No.
CP DCDC 50W 22-24V 2A	1	9919372424

Type	Qty.	Order No.
CP DCDC 50W 15V 3A	1	9919372415

Note

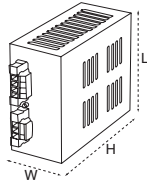
Accessories

Note

Bracket for wall mounting: 7920560000

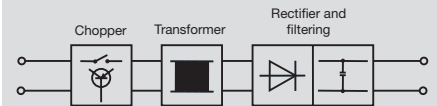
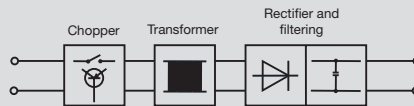
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connectPower



CP DCDC 50 W 12 V DC 3 A

CP DCDC 50 W 5 V DC 8 A



Technical data

Input	
Input voltage	9...16 V DC, type 12 V DC
Input fuse	internal
Output	
Output voltage	12 V DC
Output current	3 A
Overload behaviour	Surge cut-out with self-reset
General data	
Operating temperature	0 °C...+40 °C max. full rate load
Storage temperature	-40 °C...+85 °C
Status indication	green LED
Switching frequency	200 kHz
Approvals	CSA / UL/UR / CE

Screw connection	
Clamping range (rating- / min. / max.)	4 / 0.1 / 4
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Ordering data

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	Screw connection
Note	

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CP DCDC 50W 12V 3A	1	9919371212
Note		

Type	Qty.	Order No.
CP DCDC 50W 5V 8A	1	9919371205
Note		

Accessories

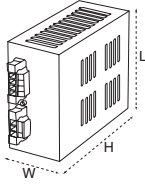
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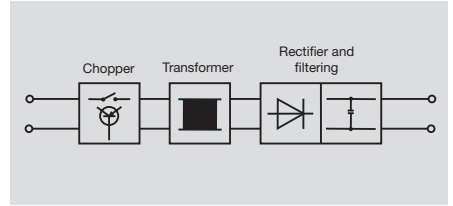
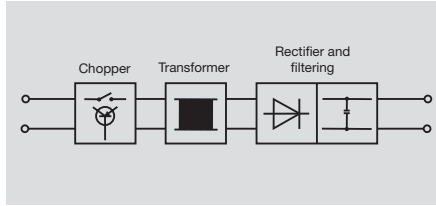
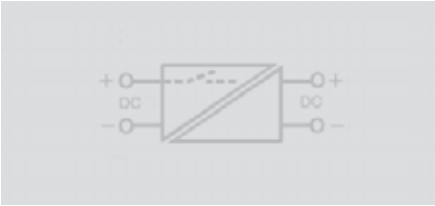
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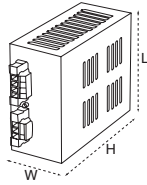
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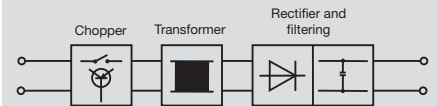
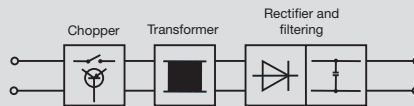
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