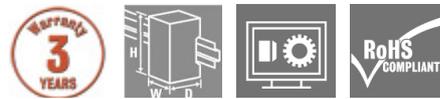


**ConnectPower  
CP DCDC 250W 24V 10A**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com



The compact DC/DC converter provides systems with optimal failure protection for maximum availability.

- Compensation of voltage fluctuations
- Regeneration of the output voltage for a stable voltage at the end of long cables
- Establishment of floating supply systems through galvanic isolation
- Above-average performance data

**General ordering data**

Delivery status	<b>Discontinued</b>
Available until	2016-06-30
Type	CP DCDC 250W 24V 10A
Order No.	<a href="#">1313320010</a>
Version	DC/DC converter, 31.2 V, 24 V
GTIN (EAN)	4050118142976
Qty.	1 pc(s).
Alternative product	<a href="#">2001810000</a>

Creation date August 17, 2020 9:41:15 PM CEST

**ConnectPower**  
**CP DCDC 250W 24V 10A**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Technical data**
**Dimensions and weights**

Width	60	Width (inches)	2.362 inch
Height	130 mm	Height (inches)	5.118 inch
Depth	150 mm	Depth (inches)	5.905 inch
Net weight	1,300 g		

**Temperatures**

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

**Probability of failure**

MTBF	750,000 h
------	-----------

**Environmental Product Compliance**

REACH SVHC	Lead 7439-92-1
------------	----------------

**Input**

Connection system	Screw connection	DC current consumption	Typ.: 11 A, Max.: 15.5 A
DC input voltage range	18 - 31.2 V DC	Input fuse (internal)	Yes
Input voltage, max.	31.2 V	Input voltage, min.	18 V
Inrush Current Limitation	Yes	Inrush current	Max. 10 A
Rated input voltage		Recommended back-up fuse	16 A / DI/II safety fuse, 16 A, char. B circuit breaker, 16 A, char. C, circuit breaker
	24 V DC		
Wire connection method	Screw connection		

**Output**

Continuous output current @ U <sub>Nominal</sub>	12 A @ 45 °C, 10,7 A @ 55 °C, 7,5 A @ 70 °C	Nominal output current for U <sub>nom</sub>	10 A @ 60 °C
Output current	10A	Output power	240 W
Output voltage	24 V	Output voltage	22.5...29.5 V
Output voltage type	DC	Overload protection	Yes
Parallel connection option	yes, max. 5 (without diode module)	Ramp-up time	≤ 100 ms
Rated output voltage	24 V DC ± 1 %	Reserve capacity @ U <sub>Nominal</sub>	12 A for 1 min, ED = 5 %
Residual ripple, breaking spikes	< 50 mV <sub>pp</sub> @ 24 V DC, I <sub>N</sub>	Wire connection method	Screw connection

## ConnectPower CP DCDC 250W 24V 10A

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

## Technical data

### General data

AC failure bridging time @ $I_{nom}$	> 7 ms @ 24 V DC	Adjacent	Yes, no gap
Ambient temperature	-25 °C...+70 °C	Clip-in foot	metal
Current limiting	> 120% $I_N$	Degree of efficiency	Typ.: 91%
Earth leakage current, max.	0.005 mA	Housing version	Metal, corrosion resistant
Humidity	5...95 %, no condensation	MTBF	> 500,000 h in accordance with IEC 61709 (SN29500)
Max. perm. air humidity (operational)	5 %...95 % RH	Mounting position, installation notice	Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between., 50 mm clearance at top and bottom for free air circulation, mountable side by side without clearance
Operating temperature	-25 °C...70 °C	Power loss	Idle: max. 2 W, Nominal load: 24 W
Protection against over-heating	Yes	Protection against reverse voltages from the load	33...34 V DC
Protection degree	IP20	Short-circuit protection	Yes
Surge voltage category	III		

### System data

Output current 10A

### EMC / shock / vibration

Limiting of mains voltage harmonic currents	According to EN 61000-3-2	Noise emission in accordance with EN55032	Class B
Interference immunity test acc. to	EN 61000-4-2 (ESD)  EN 61000-4-3 and EN 61000-4-8 (fields)  EN 61000-4-4 (burst)  EN 61000-4-5 (surge)  EN 61000-4-6 (conducted)  EN 61000-4-11 (dips)	Shock resistance IEC 60068-2-27	30 g in all directions

### Insulation coordination

Humidity at operating temperature	5...95 %, no condensation	Insulation voltage	2.5 kV AC 1 min., 1.5 kV AC 1 min., 0.5 kV AC 1 min.
Pollution severity	2	Protection class	III, with no ground connection, for SELV
Surge voltage category	III	electrical isolation, input-earth	1.5 kV
electrical isolation, input-output	1.5 kV	electrical isolation, output-earth	0.5 kV

### 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 according to EN 60950, PELV according to EN 60204	Safety transformers for switch-mode power supplies	According to EN 61558-2-16

Creation date August 17, 2020 9:41:15 PM CEST

Catalogue status 14.08.2020 / We reserve the right to make technical changes.

**ConnectPower**  
**CP DCDC 250W 24V 10A**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 www.weidmueller.com

**Technical data**
**Connection data (input)**

Conductor cross-section, AWG/kcmil , max.	12	Conductor cross-section, AWG/kcmil , min.	26
Conductor cross-section, flexible , min.	0.5 mm <sup>2</sup>	Conductor cross-section, rigid , max.	6 mm <sup>2</sup>
Conductor cross-section, rigid , min.	0.5 mm <sup>2</sup>	Connection system	Screw connection
Number of terminals	2 for (+, -)	Reverse polarity protection	Yes
Tightening torque, max.	0.6 Nm	Tightening torque, min.	0.5 Nm
Wire connection cross section, flexible (input), max.	2.5 mm <sup>2</sup>		

**Connection data (output)**

Conductor cross-section, AWG/kcmil , max.	12 AWG	Conductor cross-section, AWG/kcmil , min.	26 AWG
Conductor cross-section, flexible , max.	2.5 mm <sup>2</sup>	Conductor cross-section, flexible , min.	0.5 mm <sup>2</sup>
Conductor cross-section, rigid , max.	6 mm <sup>2</sup>	Conductor cross-section, rigid , min.	0.5 mm <sup>2</sup>
Number of terminals	7 for (DCOK, 13,14, + + -)	Tightening torque, max.	0.6 Nm
Tightening torque, min.	0.5 Nm		

**Connection data (signal)**

Number of terminals	3	Wire connection method	Screw connection
Wire cross-section, solid , max.	6 mm <sup>2</sup>	Wire cross-section, solid , min.	0.5 mm <sup>2</sup>

**Signalling**

Contact load (NO contact)	max. 30 V DC / 0.5 A	DC OK short circuit resistant	Yes
DC OK transistor output "0"	Output voltage ≤ 20.4 V	DC OK transistor output "1" (max. load)	Output voltage ≥ 21.6 V ( max. 250 mA)
Floating contact	Yes	Relay on/off	Output voltage > 21.6 V / < 20.4 V
Status indicator	LED green (DC OK): output voltage ≥ 21.6 V, LED red (fault): output voltage ≤ 20.4 V		

**Approvals**

Institute (GERMLLOYD)		Certificate No. (GERMLLOYD)	
			TAA00001H0
Institute (cULus)		Certificate no. (cULus)	
			E258476

**Classifications**

ETIM 6.0	EC002540	ETIM 7.0	EC002540
eClass 9.0	27-04-07-01	eClass 9.1	27-04-07-01
eClass 10.0	27-04-07-01		

Creation date August 17, 2020 9:41:15 PM CEST

Catalogue status 14.08.2020 / We reserve the right to make technical changes.

**Data sheet****ConnectPower  
CP DCDC 250W 24V 10A**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Technical data****Approvals**

Approvals



ROHS

Conform

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">DE_PA5200_160517_001.pdf</a>
Brochure/Catalogue	<a href="#">CAT 4.3 ELECTR 15/16 EN</a>
Engineering Data	<a href="#">EPLAN_WSCAD</a>
User Documentation	<a href="#">Warrenty Information Power Supplies.pdf</a> <a href="#">Operating Instructions</a>

**Data sheet**

**ConnectPower  
CP DCDC 250W 24V 10A**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
www.weidmueller.com

**Drawings**

**Electric symbol**

