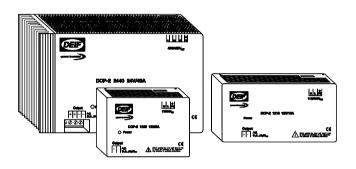


Type DCP2

Battery chargers 4189320008D (UK)



- Easy installation DIN-rail mounting
- Automatic recovery from overload conditions
- 5-10-20-40A types
- Switch mode power technology
- Extremely low ripple <100mV

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General data

Input voltage: 3 x 400/480V AC ±15% Type: DCP2-2420 and DCP2-2440

1 x 230V AC ±15% Type: DCP2-1210, DCP2-2410 and

DCP2-2420

1 x 115V AC ±15% Type: DCP2-2410/115V

1 x 230V AC ±15% Type: DCP2-1205 and DCP2-2405

Output voltage: 23.5-27.5V DC (type DCP2-24XX and -2410/115V)

11.8-13.8V DC (type DCP2-12XX)

Output current: DCP2-XX05:

5A (typical current limit 6A)
DCP2-XX10 and -2410/115V:
10A (typical current limit 12.5A)

DCP2-2420:

20A (typical current limit 25A)

DCP2-2440:

40A (typical current limit 45A)

Terminals: DCP2-1205, -1210, -2405, -2410 and -2410/115V:

Primary max. 2.5 mm² Secondary 2.5 mm²

DCP2-2420:

Primary max. 2.5 mm² Secondary 4.0 mm²

DCP2-2440:

Primary max. 2.5 mm² Secondary 10.0 mm²

Indication: Green LED – operating indication

Housing:

Materials: All plastic parts are self-extinguishing to UL94 (V0)

DCP2-2440 is encapsulated in a metal housing

Dimensions: 147 x 123 x 86 mm (DCP2-1205, -2405)

L x W x H 205 x 123 x 86 mm (DCP2-1210, -2410, -2410/115V)

(Appendix) 240 x 153 x 86 mm (DCP2-2420) 292 x 185 x 130 mm (DCP2-2440)

Distance for con-

vection: 100 mm above and below the DCP2, 30 mm to each side

Mounting: DIN-rail, EN 50022-35

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Safety: VDE0805/EN60950/IEC950

Protection: Class I

Deg. of protection: IP20

Leakage current: <0.75mA (47-63Hz line frequency)

(DCP2-2420 3-phase supply and DCP2-2440: <3.5mA)

Weight: DCP2-1205 approx. 0.8 kg

DCP2-2405 approx. 0.8 kg
DCP2-1210 approx. 1.2 kg
DCP2-2410 approx. 1.2 kg
DCP2-2410/115V approx. 1.2 kg
DCP2-2420 approx. 1.9 kg
DCP2-2440 approx. 3.6 kg



Functions and settings

Besides the output terminals (secondary side) the DCP2 has a trim potentiometer for setting of the output voltage. By means of an insulated slotted screwdriver or adjusting pin the output voltage can be set in the range 23.5-27.5V respectively 11.8-13.8V.

Setting:

Lower output voltage = Counterclockwise rotation

Higher output voltage = Clockwise rotation

The LED on the front indicates that the unit is operational.

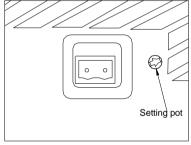
Setting pot

Illustration:

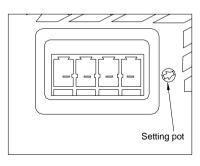
Terminals of the secondary side and setting potentiometer for output voltage.



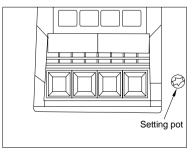
DCP2-XX10 and -XX10/115V



DCP2-2420



DCP2-2440



CAUTION:

For DCP2-2420 and DCP2-2440 the plugs on the secondary side have two terminals for each pole (+/-). The current can be drawn by one single terminal for each pole. DEIF recommends to use both terminals for each pole to avoid any unnecessary heating of the connection.

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Mounting

To obtain optimum cooling it is imperative to comply with the specified installation position, where the input terminals (L1, L2, L3, PE or L1, N, PE) are placed at the top and the output terminals (+/-) at the bottom.

Distance:

Above and below the DCP2 100 mm
To each side 30 mm

The permissible ambient temperature must not be exceeded:

- -10...70°C (operating, free convection)
- -25...85°C (storage)

Connection:

See the cover of the unit (imprint). The phase sequence is indifferent.

Protection:

Units supplied by 1 x 230V AC are internally protected by a fuse and can be connected directly to line.

The power cords for $3 \times 400/480 \text{V}$ AC units must be protected by a three-pole C-fuse or a three-pole motor circuit breaker (only DCP2-2420 and DCP2-2440). Operating with a disconnected phase is not permissible.

Fuse: DCP2-1205, -2405:

5 x 20 mm T3.15A/250V internal

DCP2-1210, -2410, -2410/115V: 5 x 20 mm T6.3A/250V internal

DCP2-2420:

5 x 20 mm T10A/250V internal

DCP2-2420, -2440:

Three poles, C-fuse or motor circuit breaker

Switch - external (setting 3A)

CE marking

All variants of the DCP2 are CE marked to the EMC Directive and the Low Voltage Directive. However, the following comments concerning EN 61000-3-2 (limits for harmonic current emissions) apply and must be observed upon installation of the 10A and 20A variants:

If the 10A and 20A variants are used as part of an apparatus which has a rated AC power of 1kW or more, there is no requirement for compliance with EN 61000-3-2.

If the 10A and 20A variants are used as part of an apparatus which has a rated AC power less than 1kW, compliance with EN 61000-3-2 must be ensured by the maker of the apparatus. In this case the maker of the apparatus containing the DCP2 must



carry out CE marking to the EN 61000-3-2 himself. All other parts of the CE marking provided by DEIF A/S are still valid.

Alternatively, permission to connect the 10A and 20A variants must be given by the local power supply authority of the place of installation of the DCP2, as stipulated by EN 61000-3-2, clause 4. In this case the entire CE marking provided by DEIF A/S, including to EN 61000-3-2, is valid.

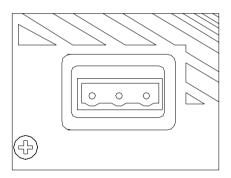
The protective earth (PE) of the DCP2 must be connected to the protective earth of the switchboard.

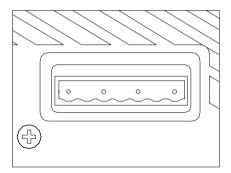
Illustration:

Grid connection.

DCP2-XX05, DCP2-XX10, -XX10/115V and DCP2-2420

DCP2-2420 and DCP2-2440





Appendix

