



Caution

Before Using Our Products

V1.0, August 2024

**Please read datasheet and
application note thoroughly
before using**

Type: DH Ultra Wide Input Type DC-DC Converter

DH15W10-800S05P	INPUT: 150~1500VDC	OUTPUT: 5V 2A 10W
DH15W10-800S12P	INPUT: 150~1500VDC	OUTPUT: 12V 1.25A 15W
DH15W10-800S15P	INPUT: 150~1500VDC	OUTPUT: 15V 1A 15W
DH15W10-800S24P	INPUT: 150~1500VDC	OUTPUT: 24V 0.625A 15W
DH30W10-800S12P	INPUT: 150~1500VDC	OUTPUT: 12V 2.5A 30W
DH30W10-800S15P	INPUT: 150~1500VDC	OUTPUT: 15V 2A 30W
DH30W10-800S24P	INPUT: 150~1500VDC	OUTPUT: 24V 1.25A 30W
DH30W10-800S48P	INPUT: 150~1500VDC	OUTPUT: 48V 0.625A 30W
DH45W10-800S12P	INPUT: 150~1500VDC	OUTPUT: 12V 3.75A 45W
DH45W10-800S15P	INPUT: 150~1500VDC	OUTPUT: 15V 3A 45W
DH45W10-800S24P	INPUT: 150~1500VDC	OUTPUT: 24V 1.87A 45W
DH45W10-800S48P	INPUT: 150~1500VDC	OUTPUT: 48V 0.938A 45W

Introduction

DH series is a DC-DC converter with main features including ultra wide input voltage, wide range operating temperature and full protective functions. etc.

DH15W10 series has ultra-high input voltage: 150~1500Vdc and various output options: 5V/12V/15V/24V.

DH30/45W10 series has ultra-high input voltage: 150~1500Vdc and various output options: 12V/15V/24V/48V.

DH series is suitable for industrial automation, surveillance, telecommunication and can be widely deployed in the applications of new energy generation such as solar power, and windmill power generation, for instances, photovoltaic power systems, high voltage inverting and so forth.

Installation

- Always allow good ventilation clearances, 5mm left and right, 40mm above and 20mm below, around the unit in use to prevent it from overheating. Also a 10-15cm clearance must be kept when the adjacent device is a heat source.
- External fuse wiring instruction:
External fuse is required. Fuse specification: 4A/1500Vdc.
The suggested fuse and fuse holder model:

Fuse brand	Manufacturer Part NO.	
	Fuse	Fuse Holder
Walter	WJ30-4	WJ30-H
Littelfuse	SPXV-4A	LFPXV/LPXV
Bussmann	PV-4A10F85L	CHPV15L85



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For more details about the fuse and fuse holder, please refer to the below links. The Walter fuse and fuse holder links:

http://www.walterfuse.com/pdf/powerfuse/powerfuse_wj30.pdf

http://www.walterfuse.com/pdf/holder/holder_wj-30h.pdf

The Littelfuse fuse and fuse holder links:

https://www.littelfuse.com/~media/electrical/datasheets/fuses/solar-fuses/littelfuse_fuse_solar_spxv_datasheet.pdf

https://www.littelfuse.com/~media/electrical/datasheets/fuse-blocks-and-holders/dead-front-fuse-holders/littelfuse_fuse_holder_lfpxv_datasheet.pdf

<https://www.littelfuse.com/~media/electrical/datasheets/fuse-blocks-and-holders/littelfuse-fuse-holder-lpxv-datasheet.pdf>

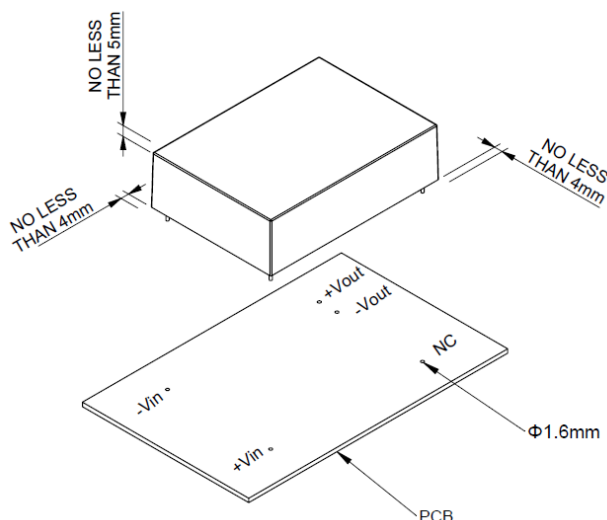
The Bussmann fuse and fuse holder links:

http://www.cooperindustries.com/content/dam/public/bussmann/Electrical/Resources/Catalogs/bus-ele-cat-1007-flc-2018-sec-06-pv.pdf?_ga=2.127114697.571121133.1577416796-883900423.1577416796

➤ Mounting Instruction :

For DH-P fastening:

Pin mount as shown in figure only, Soldered on the PCB



Pin Installation clearancs: mounting holes are 1.6mm. please allow 4mm side clearance from the components and all side of the pcb and case. allow 5mm clearance above the highest parts on the pcb and case.

- The ambient temperature derating of 3.5°C/1000m with fan less models and of 5°C/1000m with fan models for operating altitude higher than 2000m(6500ft).
- Please refer to the warranty statement on CINCON's website at <https://www.cincon.com>
- For any application note and IP water proof function installation caution, please refer our user manual before using. <https://www.cincon.com/user-manual/dc-dc-converter-user-manual-english.pdf>
- Product Liability Disclaimer: For detailed information, please refer to https://www.cincon.com/about_en_3.php
- For other information about the products, please refer to www.cincon.com for details.



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Warning/Caution!!

“CAUTION : FOR USE IN A CONTROLLED ENVIRONMENT. REFER TO MANUAL FOR ENVIRONMENTAL CONDITION” ATTENTION: A UTILISER DANS UN ENVIRONNEMENT CONTROLE. REFEREZ VOUS AU MANUEL POUR LES CONDITIONS D'ENVIRONNEMENT.

- Risk of electrical shock and energy hazard. All failure should be examined by a qualified technician. Please do not remove the case of the power supply by yourself!
- Risk of electric arcs and electric shock (danger to life). Connecting both the primary and the secondary sides together is not allowed.
- Risk of burn hazard. Do not touch the unit in operation and shortly after disconnection!
- Risk of fire and short circuit. The openings should be protected from foreign objects or dripping liquids.
- Only install the unit in a pollution degree 2 environment (Note.1).
- Please do not install the unit in places with high moisture or near the water.
- The maximum operating temperature is 80°C for the DH series, please do not install the unit in places with high ambient temperature or near fire source.
- Output current and output wattage must not exceed the rated value on its specification.
- Disconnect system from supply voltage:

Before commencing any installation, maintenance or modification work: Disconnect your system from supply voltage. Make sure that inadvertent connection in circuit will be impossible!

- +Vin: Input positive terminal
- Vin: Input negative terminal
- +Vout: Output positive terminal
- Vout: Output negative terminal
- NC: No connection with pin



CAUTION

- Risk of electric shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.
- Do not remove cover until 5 minutes after disconnecting all sources of supply.



ATTENTION

- Risque de choc électrique, ne pas enlever le couvercle. Aucune pièce utilisable par l'utilisateur à l'intérieur. référez l'entretien à du personnel de service qualifié.
- Ne retirez le couvercle que 5 minutes après avoir dé branché toutes les sources d'alimentation.

Applicable Requirements

CSA C22.2 No. 107.1:16 (Fourth Edition);
UL 1741 (Third Edition; Reprint with revisions through and including May 19, 2023)



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Note.1: Pollution Degree 2 applies where there is only non-conductive pollution that might temporarily become conductive due to occasional condensation. Generally refer to dry, well-ventilated locations, such as control cabinets.

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