

• Wide voltage range input

17...34Vdc

34...67Vdc

67...155Vdc

250... 1500Vdc

• Output : 12V, 24V, 48V, adjustable

• Power : 120W ; 240W ; 480W

peak power 150% during 5 seconds

• Fully protected

- short circuits

- overload

- thermal

• High efficiency up to 93%

• Input / output isolation

- 2500V or 4000Vac



The WRDIN series is a range of DC-DC converters mounted in DIN rail. These high density switching modules are suitable for a stable and isolated power supply.

Description:

DIN rail mounting

32mm width case for 120W to 85mm width for 480W

Shield on 6 faces, Conformal coating in option

Highly resistant to vibration and shocks

Wiring on screw terminal: 2.5mm² / 4mm²

Overload protected

Continuous short circuit protected

Thermal protection (output power limitation)

Natural convection cooling

Built-in EMI filter (EN55022 class A)

Parallel coupling with current sharing is possible.

(specific manufacturing on request)

Input voltage : from 9Vdc to 1500Vdc wide range

inrush current internally limited

Output voltage : 12, 24, 48Vdc

Technical specifications:

Output voltage accuracy: +/-1% typical

Line voltage regulation (input variation) : +/-0.5%

Load voltage regulation (output current variation) : +/-1%

Noise and ripple : < 100mV pp (20MHz bandwidth)

Temperature coefficient : +/- 0.02% / °C

Operating temperature : -20 to +55°C

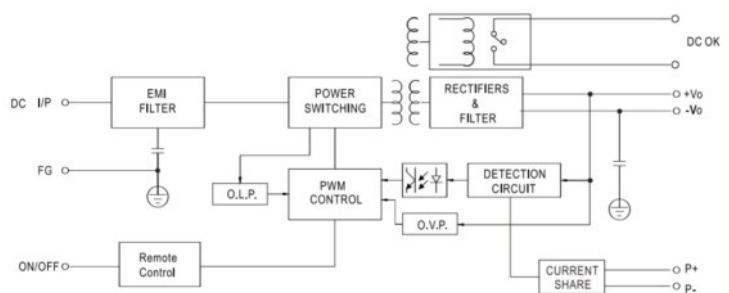
Derating : 2.5% / °C above 55°C

Output current limitation : 150% peak

Current regulation above the nominal power

Switching frequency : 800KHz typical

Internal synoptic :



Version and order code:

[Request a quote](#)

WRDIN120 in / out 120 watts

WRDIN240 in / out 240 watts

WRDIN480 in / out 480 watts

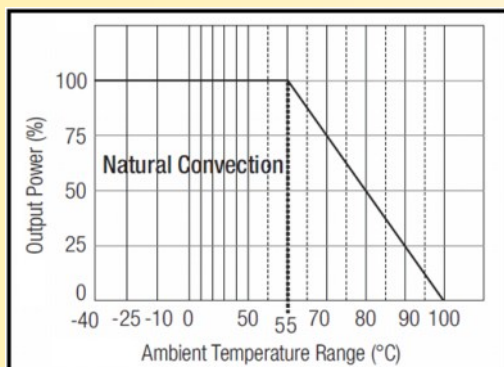
The WRDIN480 allows a parallel wiring of 4 modules max (see page 4)

in : rating input voltage
out : DC voltage output

ENVIRONMENT

Operating temperature:	-20 to 55 °C (without derating)
Storage temperature:	-40 to 85 °C
Humidity	95 % (not condensed)
Protection rating	IP20 (enclosure and connectors)
Dielectric strength	1500 Vrms continuous
Insulation resistance	> 100 Mohms at 1000Vdc
input/output capacity	1200pf typical
Safety standards	EN 60950-1
Maxi efficiency	between 81 and 92%.
Vibration	10-55Hz, 1G, 30 minutes X,Y,Z.
Weight	0.25 to 1Kg depend of model
MTBF (MIL-HDBK-217F)	400 000 hours @ 25°C

Output power function of temperature



To ensure the technical specifications, we recommend a spacing of at least 10mm between each device

POWER SUPPLY (must be defined)

DC input voltage: 9...18Vdc; 17...34Vdc; 34...67Vdc; 67...155Vdc
Wide range, with under voltage lockout and reverse polarity protection.
Rating inrush current : 30A



OUT-

PUTS

(Number and voltage to be defined)

Voltage output : 12 Vdc, 24 Vdc, 48Vdc, adjustable 15%

Transient response : 1ms (typical)
(25% output load change)

Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE

Immunity standard for
industrial environments
EN 61000-6-2

Emission standard for
industrial environments
EN 61000-6-4

EN 61000-4-2 ESD

EN 61000-4-8 AC MF

EN 55011

EN 61000-4-3 RF

EN 61000-4-9 pulse MF

group 1

EN 61000-4-4 EFT

EN 61000-4-11 AC dips

class A

EN 61000-4-5 CWG

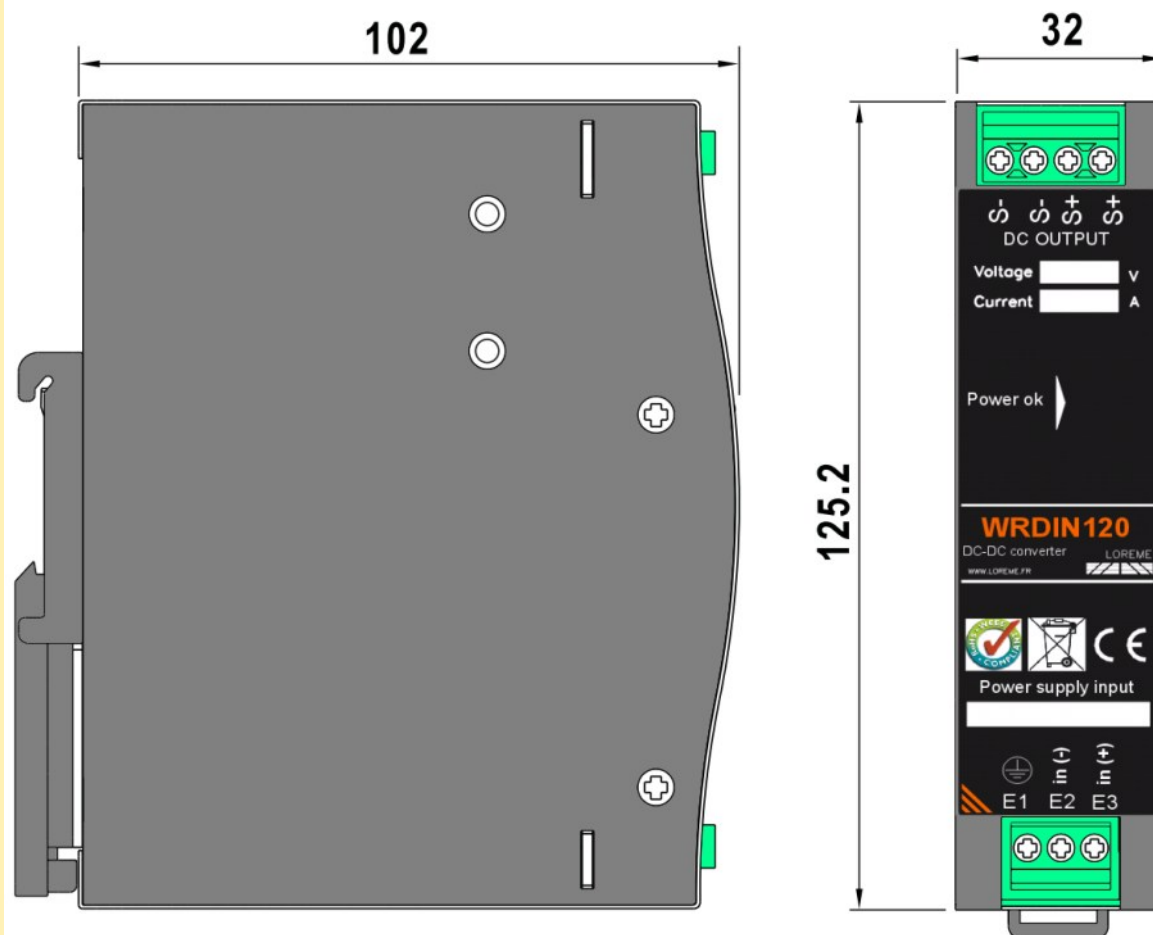
EN 61000-4-12 ring wave

EN 61000-4-6 RF

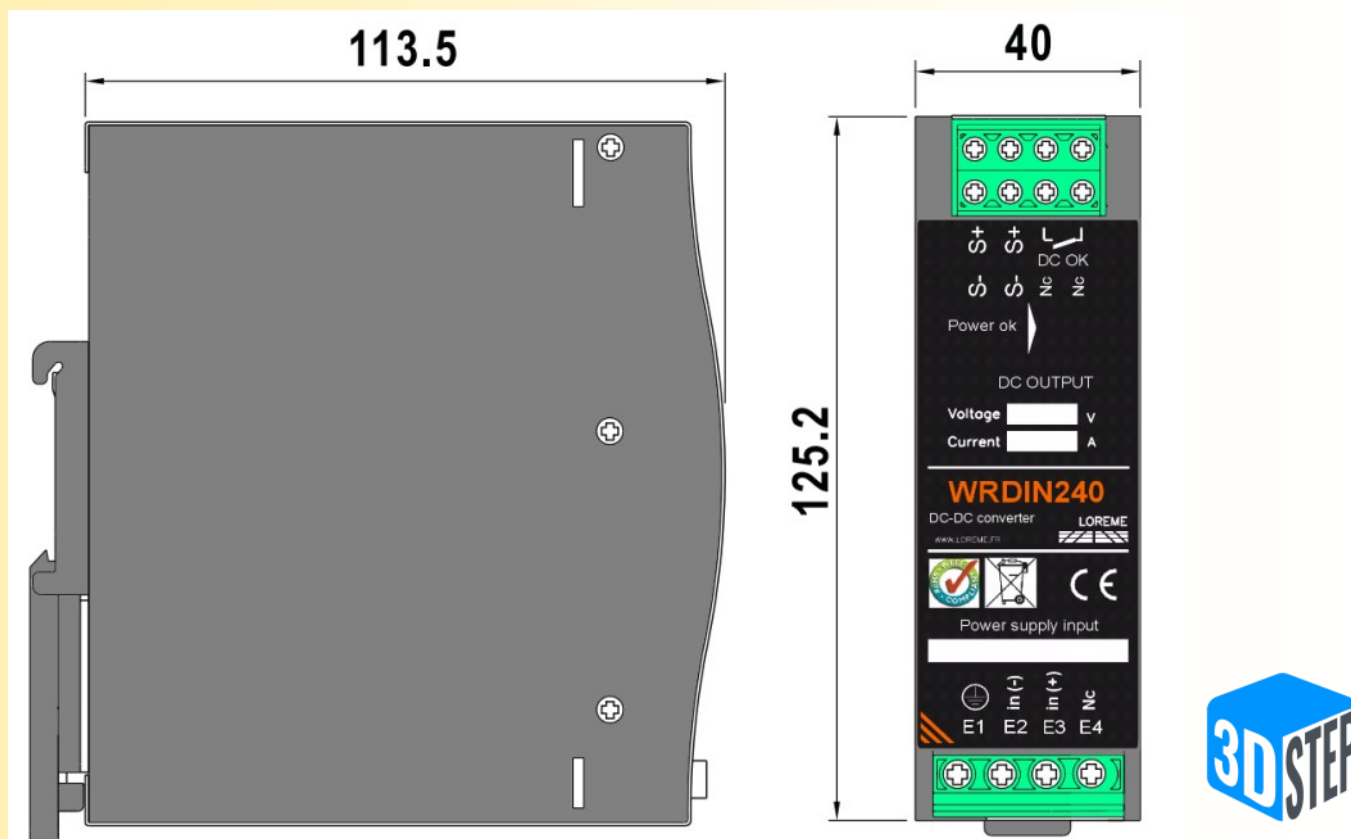
EN 61000-4-29 DC dips



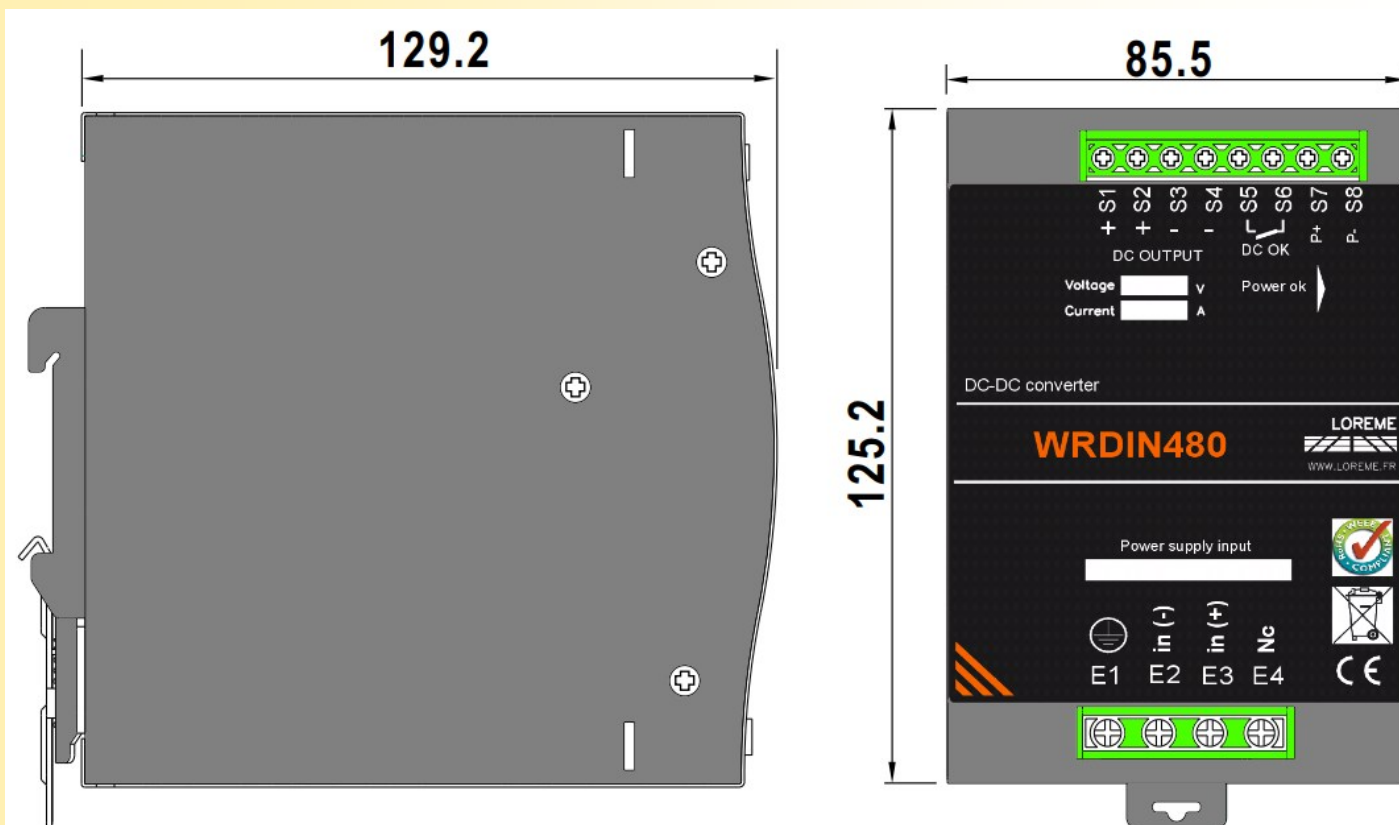
WIRING AND OUTLINE DIMENSIONS: WRDIN 120



WIRING AND OUTLINE DIMENTIONS: WRDIN240



WIRING AND OUTLINE DIMENTIONS : WRDIN480



Wiring for parallel coupling of 2 to 4 modules WRDIN480 (1800W total power)

