

- **For parallel coupling of 2 or 3 DC power supplies**

Increases system availability and safety

Ensures uninterrupted redundancy

Allowing the replacement of one supply without cutoff

- **Range of use : 20Vdc ... 280Vdc**

MPA3 : 20A nominal, 30A maxi (natural convection)

MPA3-3 : version with 3 inputs 30A maxi

MPAD : 2 circuits with common anode and cathode

MPA4 : 40A rating current, 50A maxi (ventilated model)

MPA5 : 80A rating current, 100A maxi (ventilated model)

MPA6 : 200A rating current, 250A maxi (ventilated model)

Monitoring relay in option

- **DIN rail or surface mounting**

- **Application** rescued system

or installation requiring a high level of availability.



The redundant module provide an effective protection against the power supplies failure.

Through decoupling of two power supplies, the failure of one of them has no effect on the output, the other taking automatically its function without interruption.

The redundant module monitor continuously the two power supplies, and provide an alarm via a contact relay if a failure is detected (loss of redundancy).

Benefit

- Significantly improves the operational safety,
- Increases the availability of installations,
- Increases the immunity against power voltage dips

Inputs

2 or 3 inputs up to 280Vdc with common ground.

Output

equal to the higher input voltage - 1.2V

Monitoring relay (MPAx/R)

- Potential free contact (closed when power supply is ok)
- 1 relay per channel, signal a faulty power supply.

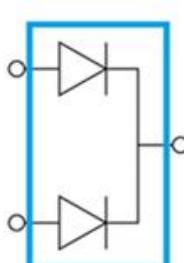
Extended protection for harsh environment (option - MOV)

- EMC protection, varistor surge protector.

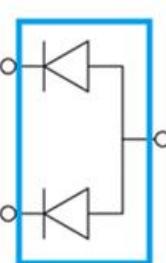
Feature

- Surface or DIN rail mounting (symmetric according to EN50022)
- MPA3 : pluggable screw terminal blocks, 6mm² section
- MPA4 : fixed screw terminal blocks, 25mm² section
- MPA5 : fixed screw terminal blocks, 35mm² section
- MPA6 : wiring on 8mm threaded brass rod
- Protection rating: IP20

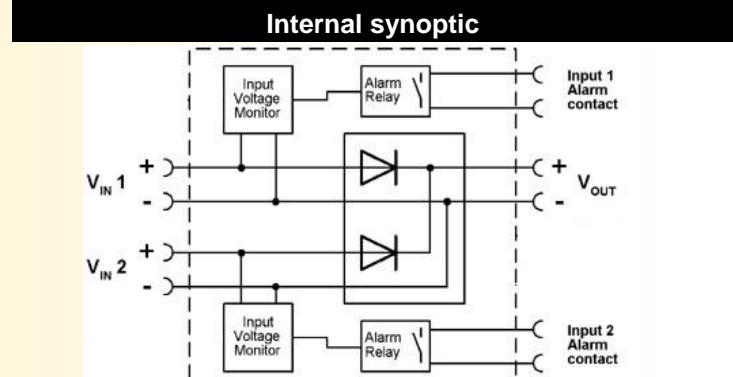
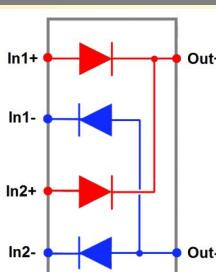
MPA standard common cathode



MPA-AC common anode



MPAD common anode + cathode



Version and order code:

[Request a quote](#)

- MPA3:** Redundancy module with 2 inputs, up to 30A maxi
MPA3 – ICC1200-20ms: peak current up to 1200A (single pulse, 20ms)
MPA3D: Redundancy module with common anode and cathode
MPA3D-NV version of MPA3D without ventilation, natural convection
MPA3-3: Redundancy module with 3 inputs, up to 30A maxi
(Operating voltage range 20Vdc to 280Vdc)

MPA3/R-MOV-RTE: Redundancy module 127Vdc nominal / 30A with monitoring relay and varistor protection (model for RTE customers)

- MPA4:** Redundancy module up to 50A max (voltage to defined)
MPA4D: Redundancy module with common anode and cathode
MPA4 – ICC1200-20ms: peak current up to 1200A (single pulse, 20ms)
MPA5: Redundancy module up to 100A max (voltage to defined)
MPA5D: Redundancy module with common anode and cathode
MPA6: Redundancy module up to 250A max (voltage to defined)
(Operating voltage :20Vdc to 280Vdc, rated value to defined)

- Option : **/R** input voltage monitoring relay
(the rating voltage must be defined)
-AC Diode mounted in common Anode
-MOV varistor surge protector

note : options can be cumulated (no option for MPA3-3 model)

INPUT / POWER SUPPLY		ENVIRONMENT	
MPA3	Voltage 20...280Vdc Rating current 20Adc, 30A @45°C maxi	Operating temperature: -25°C to 60°C Storage temperature: -40°C to 85°C Humidity: 85 % non condensed	
MPA4	Voltage 20...280Vdc Rating current 40Adc, 50A @45°C maxi	Protection rating (according to EN 60529): IP20	
MPA5	Voltage 20...280Vdc Rating current 80Adc, 100A @45°C maxi	Weight: 950 g	
MPA6	Voltage 20...280Vdc Rating current 200Adc, 250A @45°C maxi	Dielectric strength (power supply / relay) 2500Vac continuous	
Reverse polarity protected		MTBF (MIL HDBK 217F) > 1 200 000 Hrs @ 25°C life time > 200 000 Hrs @ 30°C (natural convection) > 50 000 Hrs @ 30°C (ventilated)	
OUTPUT			
Typical voltage = input voltage - 1.6V @ rating current			
Maxi overcurrent supported 3 x I / 5 sec.			
Leakage current < 200mA			
Switching time < 250nsec			
MONITORING RELAY (MPAx/R)			
Potential free contact (open on failure)		Electromagnetic compatibility 2014/30/UE / Low Voltage Directive 2014/35/UE	
switching capacity : 5A / 250V		Immunity standard for industrial environments and power station EN 61000-6-2 / EN 61000-6-5	Emission standard for industrial environments EN 61000-6-4
response time : 5ms		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 class A
		EN 61000-4-4 EFT EN 61000-4-11 AC dips	
		EN 61000-4-5 CWG EN 61000-4-12 ring wave	
		EN 61000-4-6 RF EN 61000-4-29 DC dips	

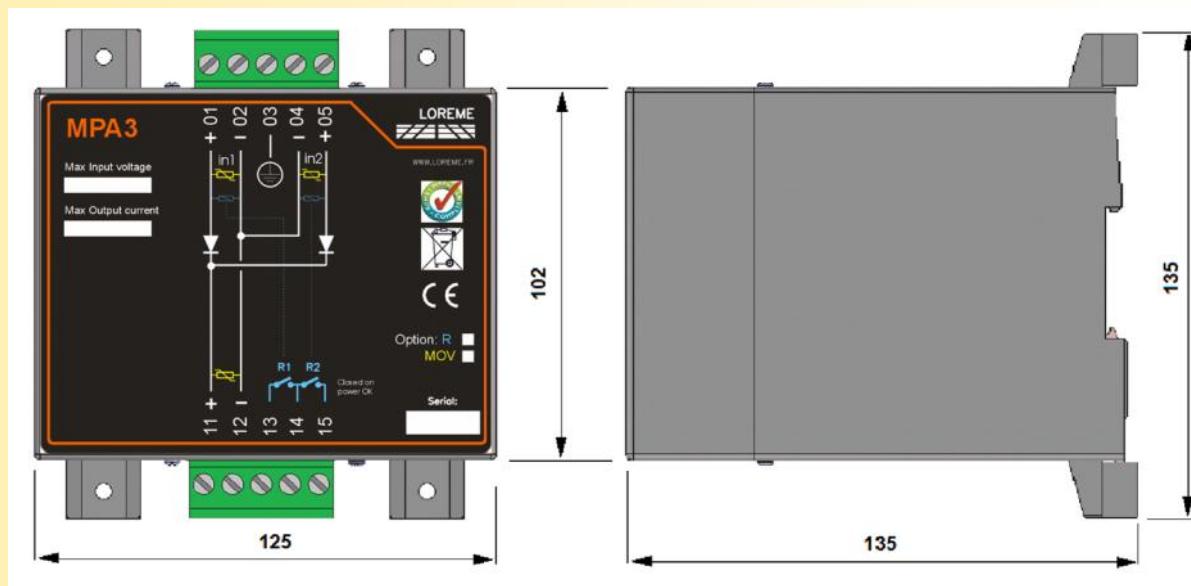
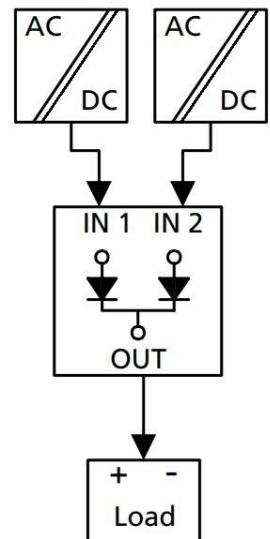
WIRING AND OUTLINE DIMENSIONS: MPA3

MPA3

Voltage : 20...280Vdc

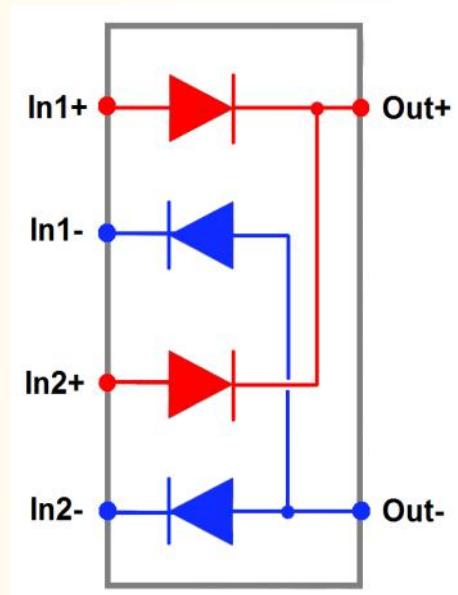
Current :

**20 Adc nominal,
30A @ 45°C max**

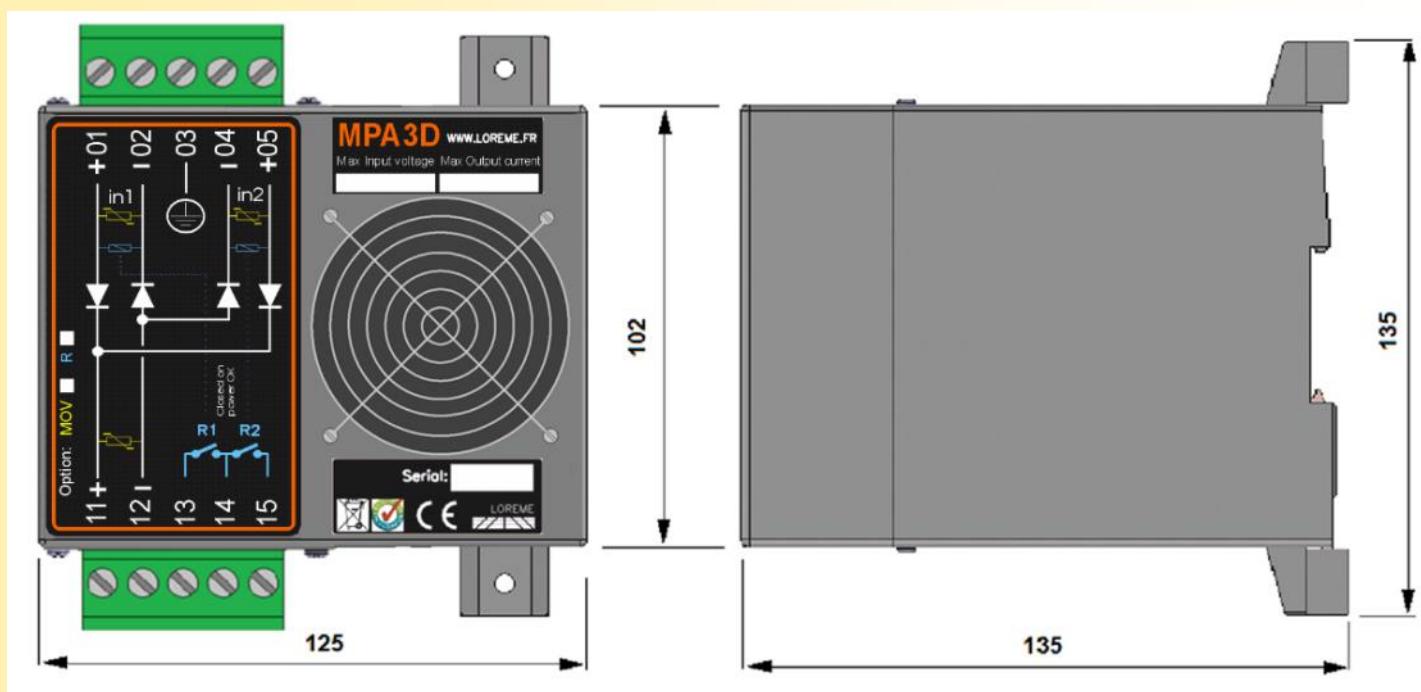


MPA3D Voltage 20...280Vdc
Rating current: 20 Adc, 30A @ 45°C maxi

LOREME

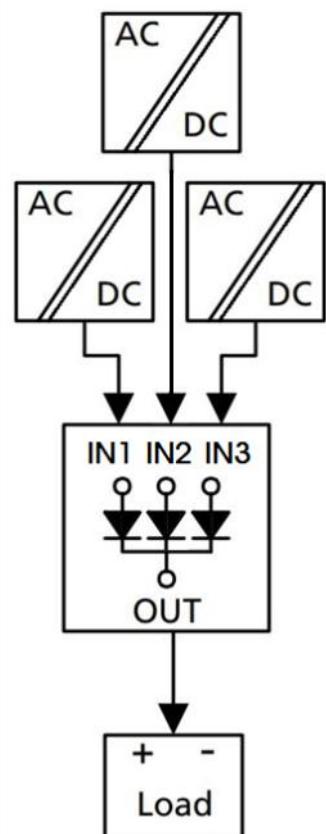


WIRING AND OUTLINE DIMENSIONS: MPA3D dual circuit common Cathode and common Anode

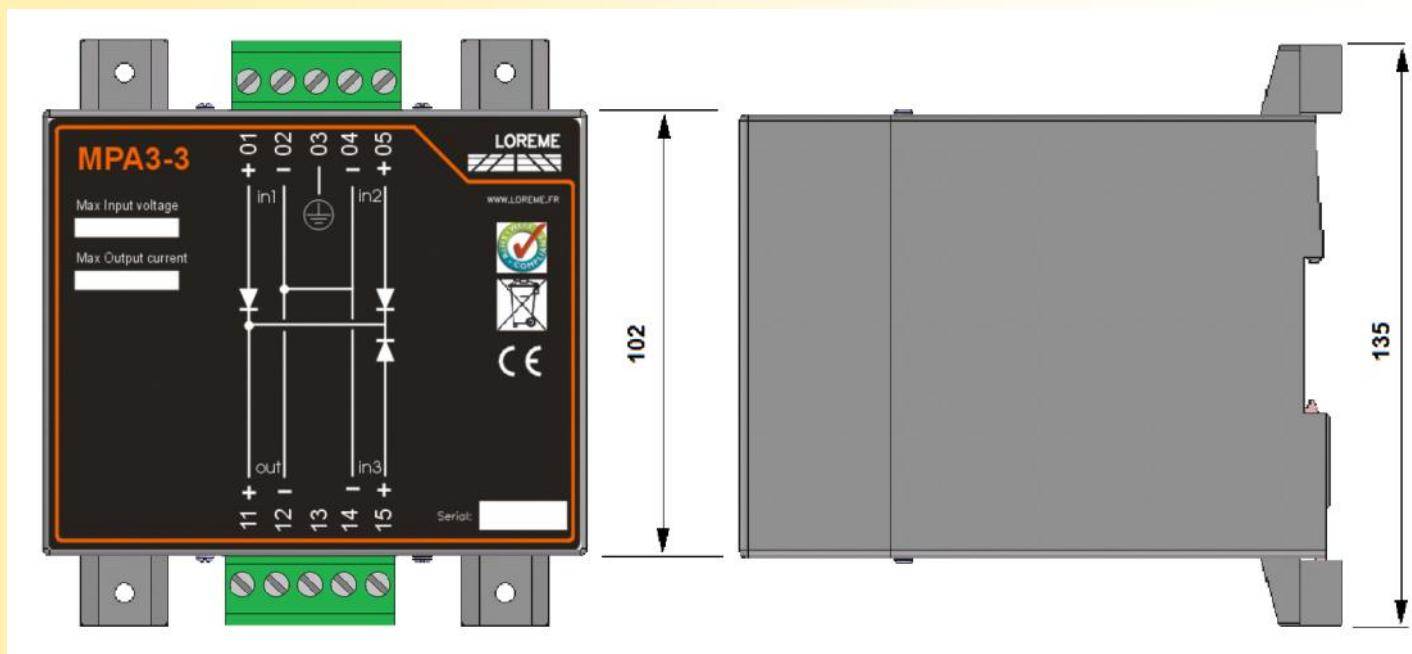


MPA3-3 Voltage 20...280Vdc
Rating current: 20 Adc, 30A @ 45°C maxi

LOREME

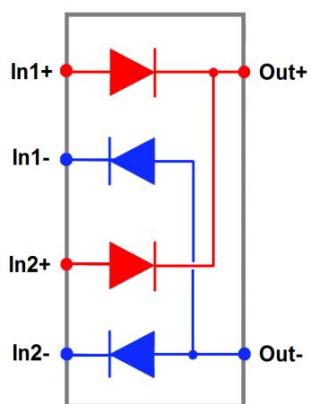
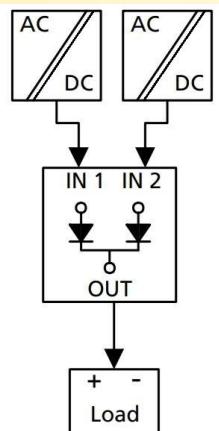


WIRING AND OUTLINE DIMENSIONS: MPA3-3 3 inputs version

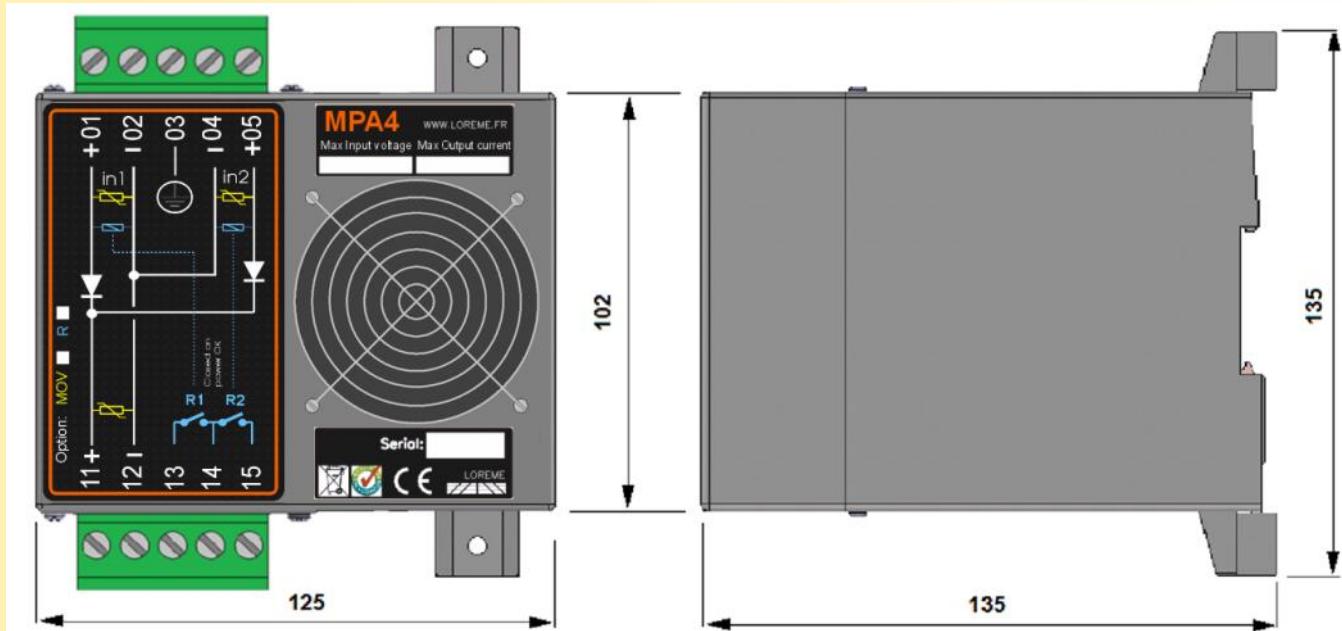


MPA4 **Voltage 20...280Vdc**
Rating current: 40Adc, 50A @ 45°C maxi

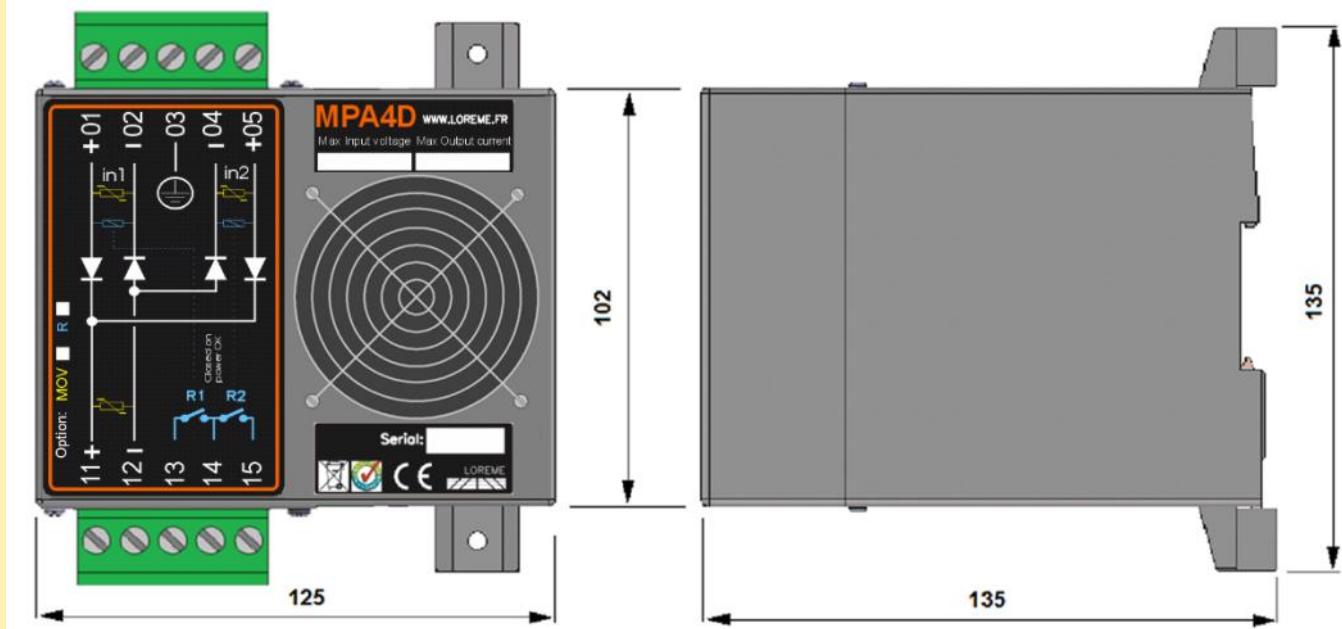
LOREME



WIRING AND OUTLINE DIMENSIONS: MPA4

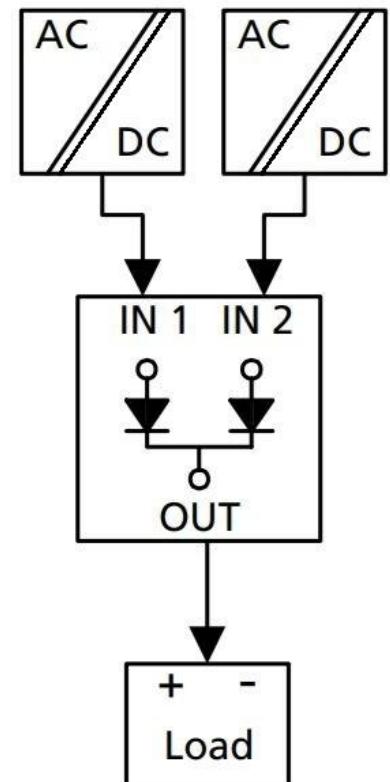


WIRING AND OUTLINE DIMENSIONS: MPA4D

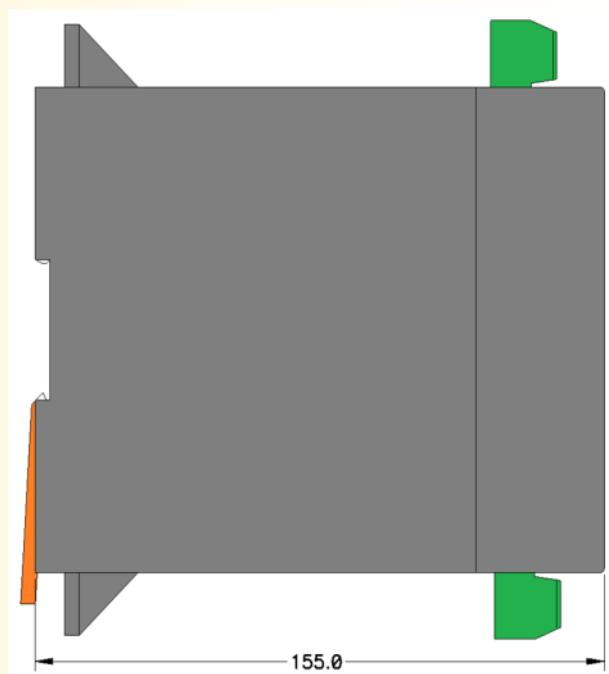
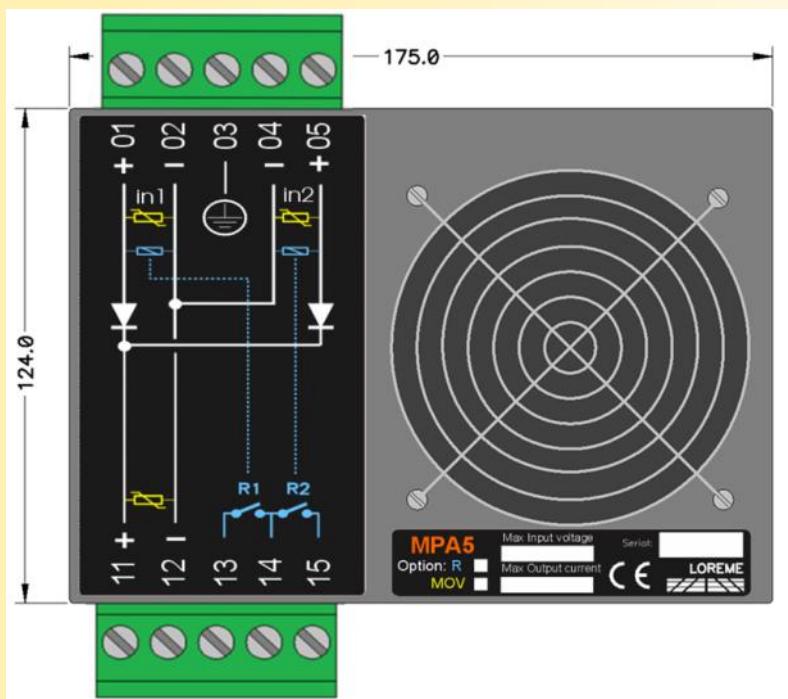


MPA5 **Voltage 20...280Vdc**
Rating current: 80 Adc, 100A @ 45°C maxi

LOREME

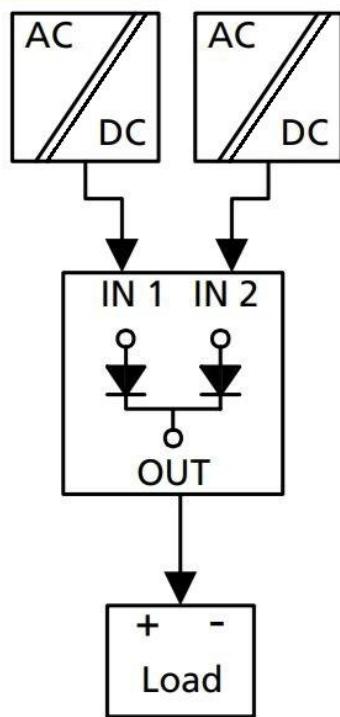


WIRING AND OUTLINE DIMENSIONS: MPA5



MPA6 **Voltage 20...280Vdc**
Rating current: 200 Adc, 250A @ 45°C maxi

LOREME



WIRING AND OUTLINE DIMENSIONS: MPA6

