

- **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)

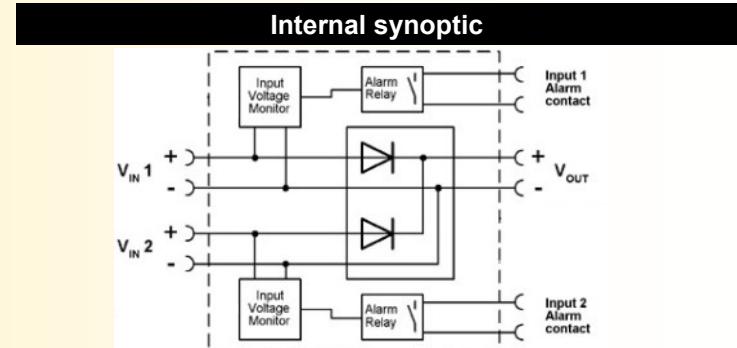
- Potential free contact (closed when power supply is ok)
- 1 relay per channel, signal a faulty power supply.

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



Version and order code:

[Request a quote](#)

- | | |
|-----------------------------|----------------------------------------------------------------------------------------|
| MPA3: | Redundancy module with 2 inputs, 30A maxi |
| MPA3 – ICC1200-20ms: | peak current up to 1200A (single pulse, 20ms) |
| MPA3B: | Redundancy module with balanced current input |
| MPA3D: | Redundancy module with common anode and cathode |
| MPA3D-NV | version of MPA3D without ventilation, natural convection |
| MPA3-3: | Redundancy module with 3 inputs, 30A maxi
(Operating voltage range 20Vdc to 280Vdc) |

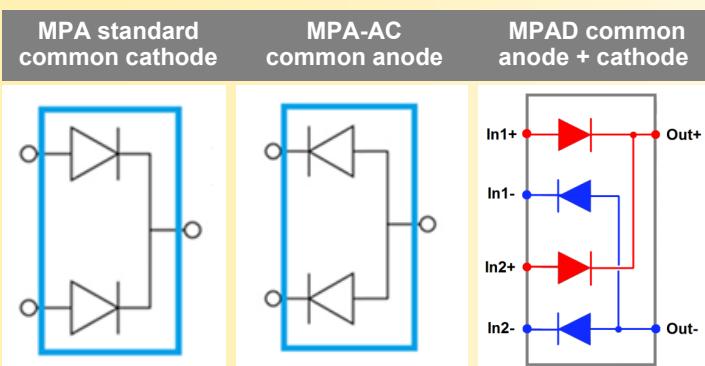
MPA3/R-MOV-RTE: Redundancy module 127Vdc nominal / 30A with monitoring relay and varistor protection (model for RTE customers)

- | | |
|-----------------------------|--------------------------------------------------|
| MPA4: | Redundancy module, 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, 100A max (voltage to defined) |
| MPA5D: | Redundancy module with common anode and cathode |
| MPA6: | Redundancy module, 250A max (voltage to defined) |
| MPA6D: | Redundancy module with common anode and cathode |

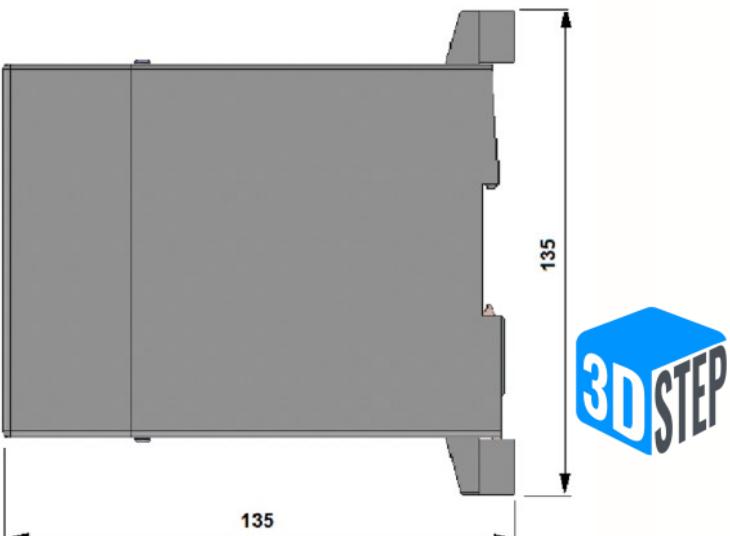
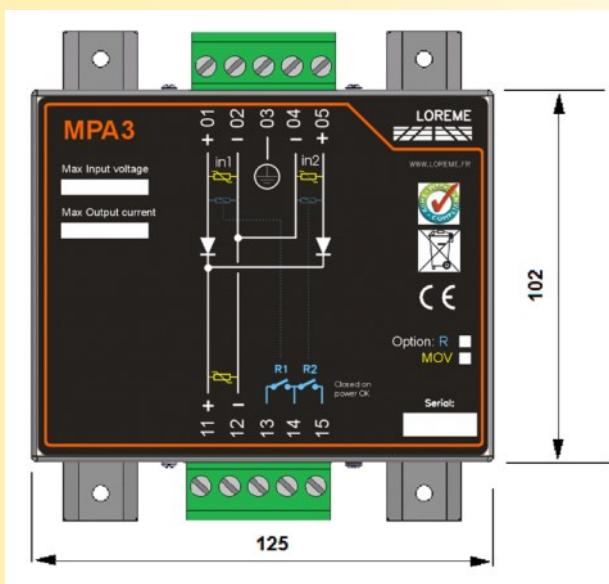
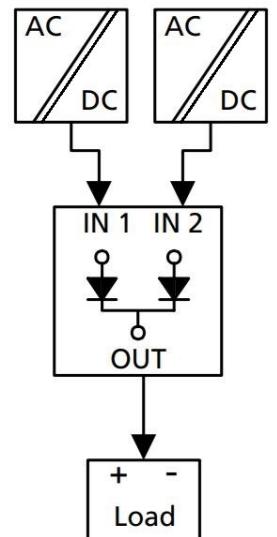
(Voltage : 20Vdc to 280Vdc. Rated voltage must be defined at order)

Option : /R input voltage monitoring relay
 -AC Diode mounted in common Anode
 -MOV varistor surge protector

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

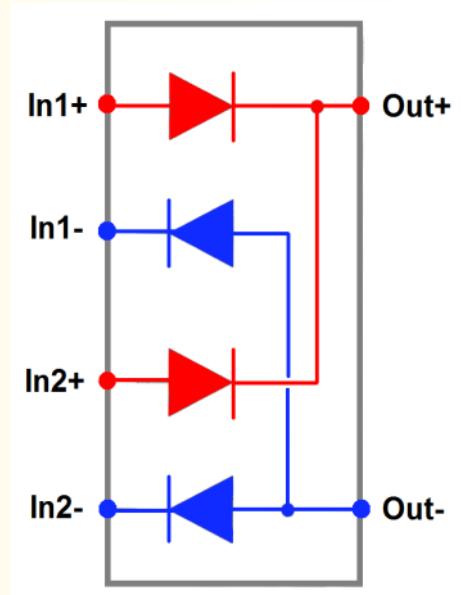


INPUT / POWER SUPPLY		ENVIRONMENT	
MPA3	Voltage 20...280Vdc 20A rated current, 30A @45°C maxi	Operating temperature:	-25°C to 60°C
MPA4	Voltage 20...280Vdc 40A rated current, 50A @45°C maxi	Storage temperature:	-40°C to 85°C
MPA5	Voltage 20...280Vdc 80A rated current, 100A @45°C maxi	Humidity:	85 % non condensed
MPA6	Voltage 20...280Vdc 200A Rated current, 250A @45°C maxi	Protection rating (according to EN 60529):	IP20
Reverse polarity protected		Weight:	950 g
OUTPUT		Dielectric strength (power supply / relay)	2500Vac continuous
Typical voltage = input voltage - 1.6V @ rated current		MTBF (MIL HDBK 217F)	> 1 200 000 Hrs @ 25°C
Maxi overcurrent supported 3 x I / 5 sec.		life time	> 200 000 Hrs @ 30°C (natural convection)
Reverse leakage current < 200uA			> 50 000 Hrs @ 30°C (ventilated)
Switching time < 250nsec			
MONITORING RELAY (MPAx/R)			
Potential free contact (open on failure)			
switching capacity : 5A / 250V		Immunity standard for industrial environments and power station EN 61000-6-2 / EN 61000-6-5	
response time : 5ms		Emission standard for industrial environments EN 61000-6-4	
		EN 61000-4-2 ESD EN 61000-4-8 AC MF	
		EN 61000-4-3 RF EN 61000-4-9 pulse MF	
		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	
		EN 55011 group 1 class A	
WIRING AND OUTLINE DIMENSIONS: MPA3			

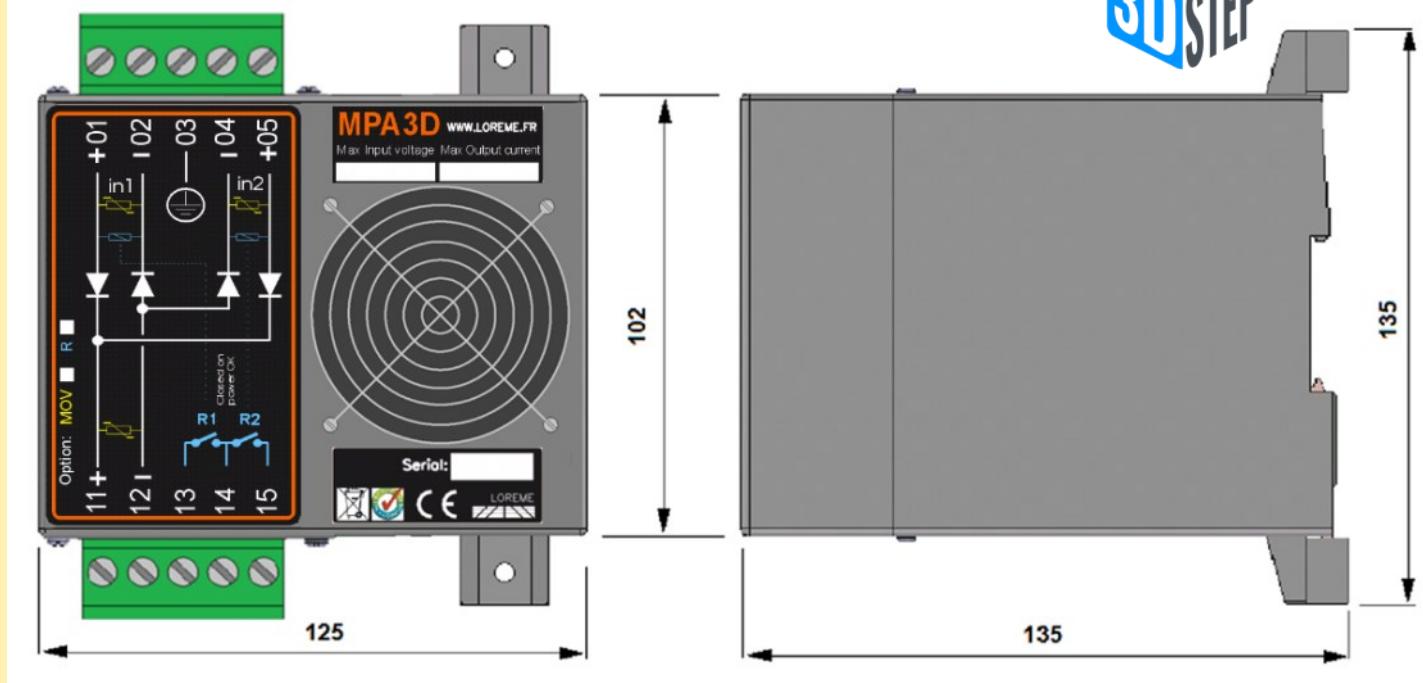
MPA3**Voltage : 20...280Vdc****Current :****20 Adc rated current,
30A @ 45°C max**

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

LOREME

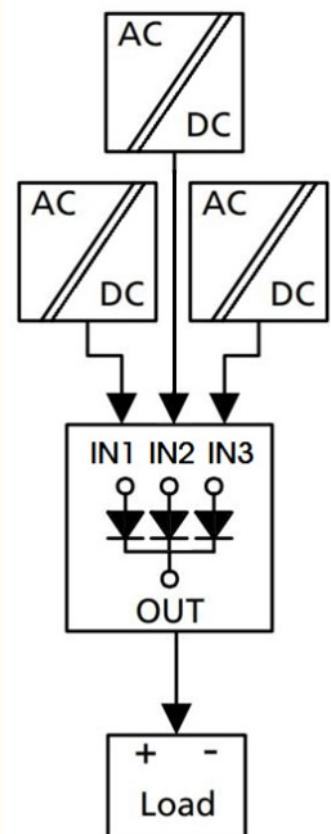


WIRING AND OUTLINE DIMENSIONS: MPA3D dual circuit common Cathode and common Anode

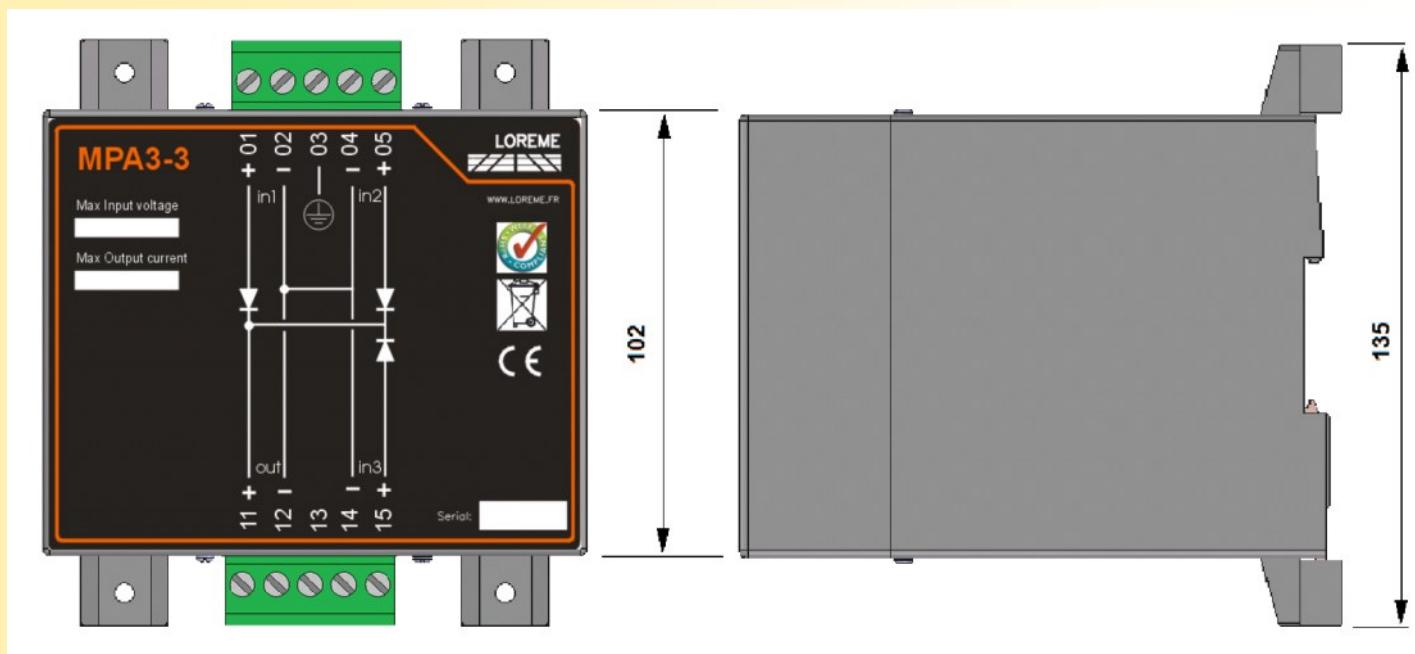


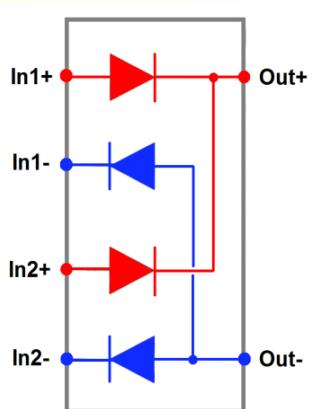
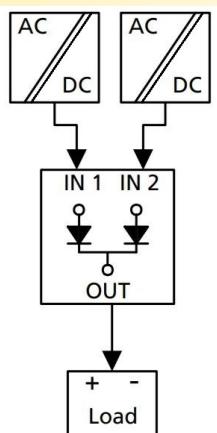
MPA3-3 Voltage 20...280Vdc
Rating current: 20 Adc, 30A @ 45°C maxi

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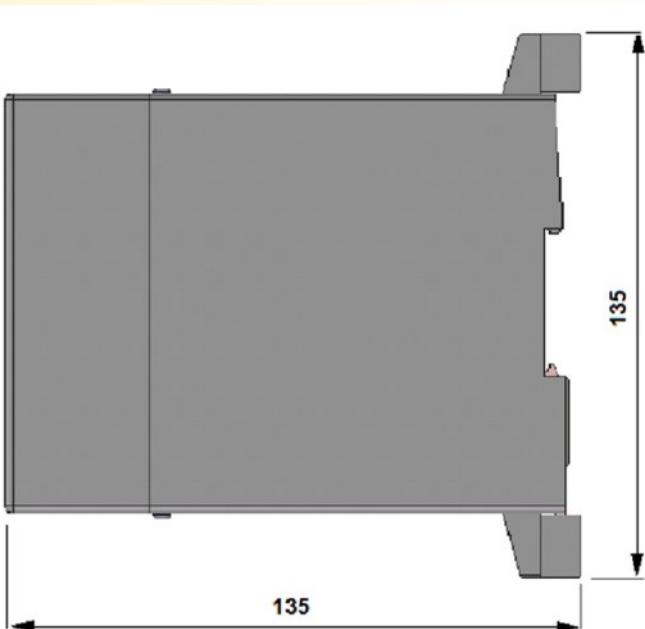
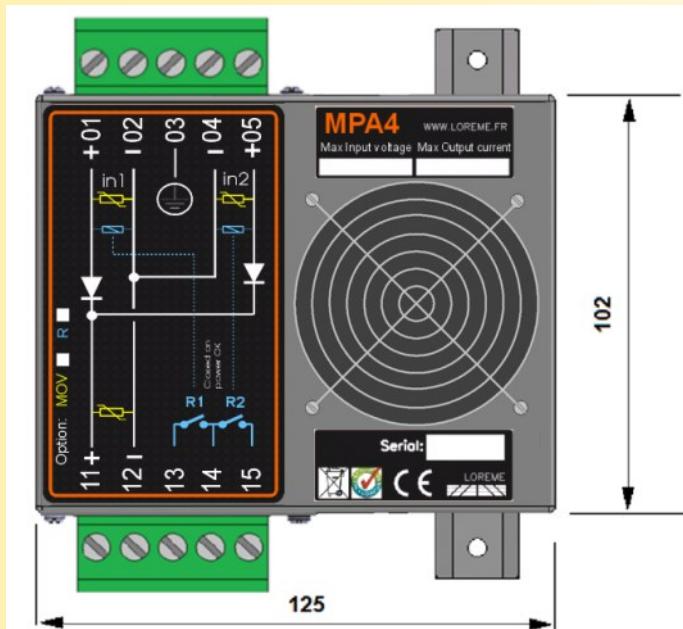


WIRING AND OUTLINE DIMENSIONS: MPA3-3 3 inputs version

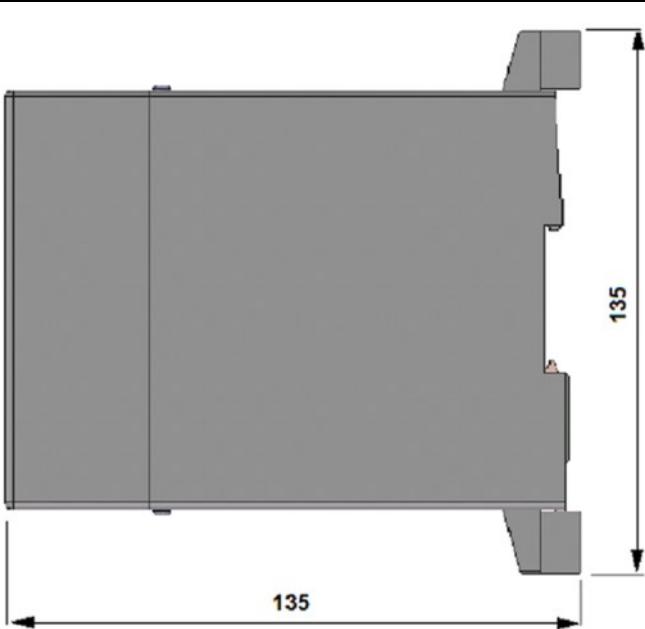
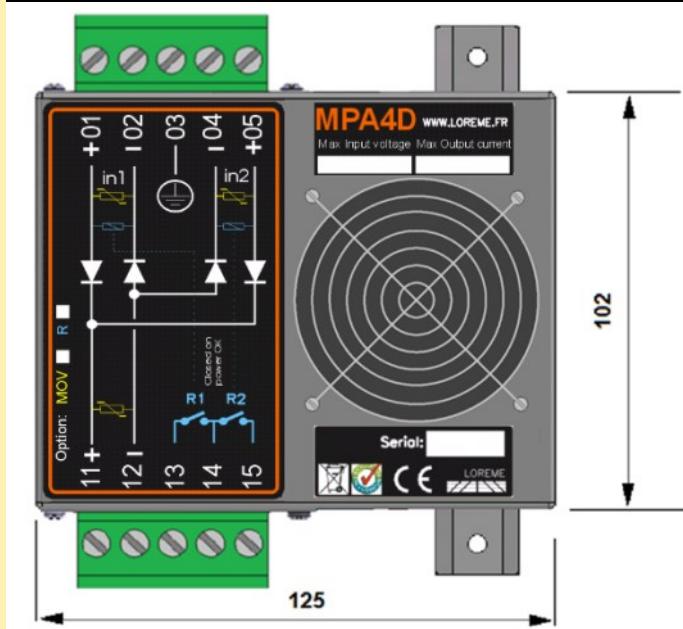




WIRING AND OUTLINE DIMENSIONS: MPA4

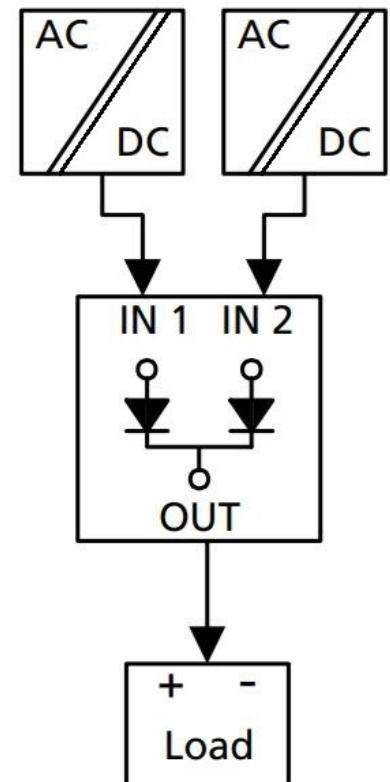


WIRING AND OUTLINE DIMENSIONS: MPA4D

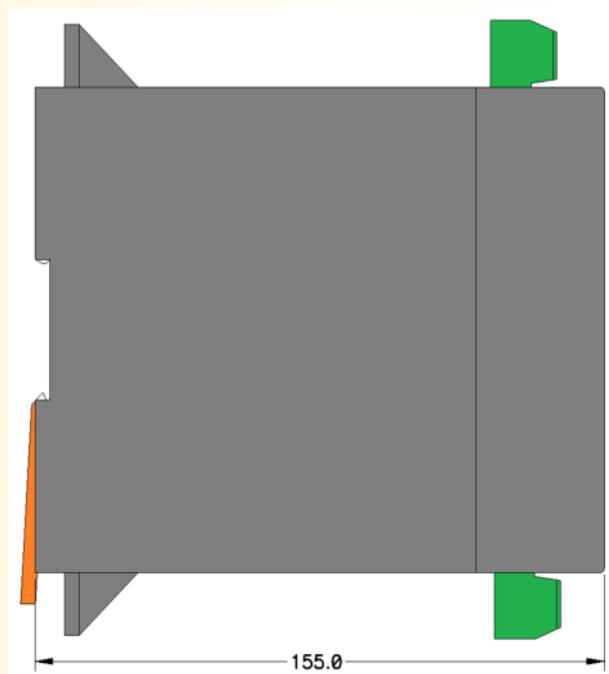
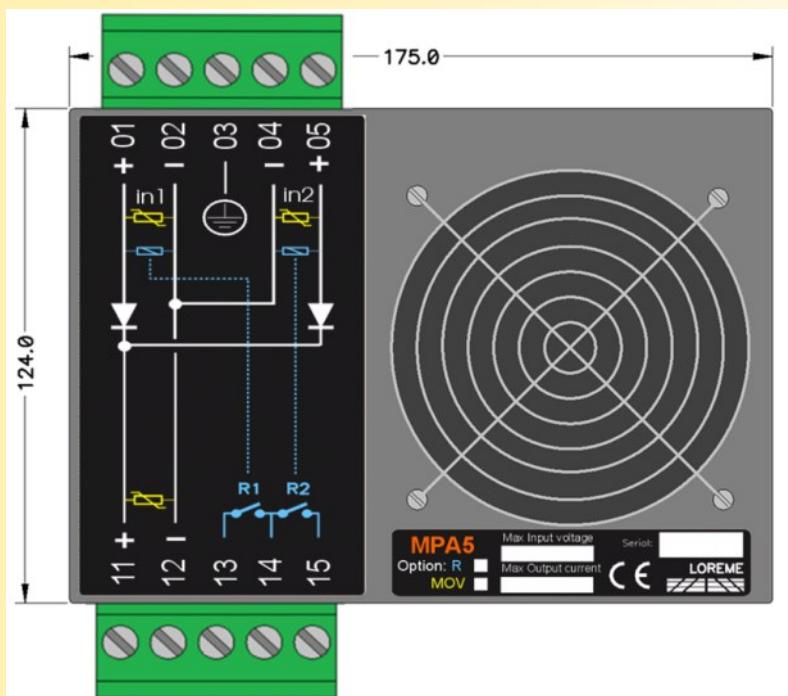


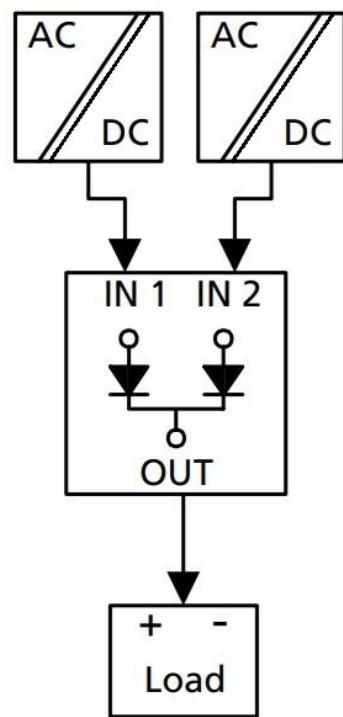
MPA5 Voltage 20...280Vdc
Rating current: 80 Adc, 100A @ 45°C maxi

LOREME

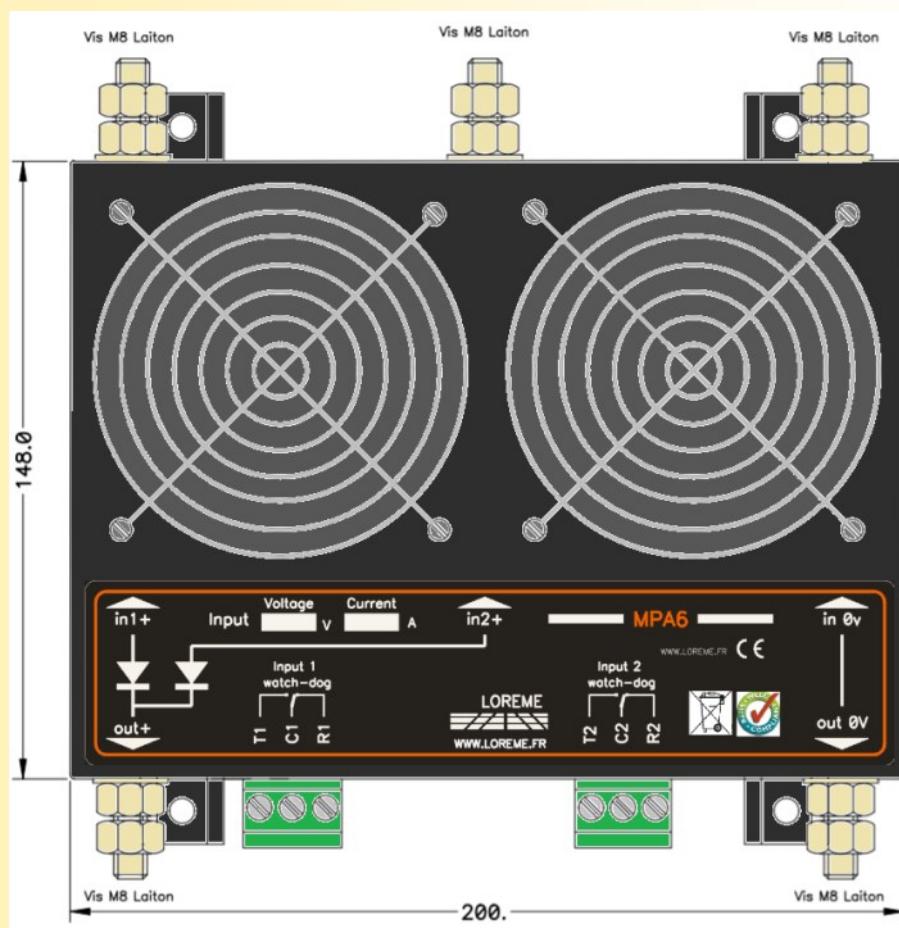


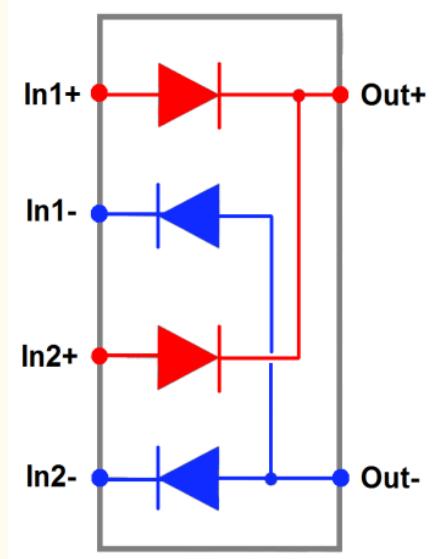
WIRING AND OUTLINE DIMENSIONS: MPA5





WIRING AND OUTLINE DIMENSIONS: MPA6





WIRING AND OUTLINE DIMENSIONS: MPA6D dual circuits common Cathode and Anode

