

**Battery isolators UNIMOS**

# COMPACTNESS AND PERFORMANCE

**+ UNITECK**

Exceptional efficiency



Direct to PCB power connector for faster energy transfer without loss of power



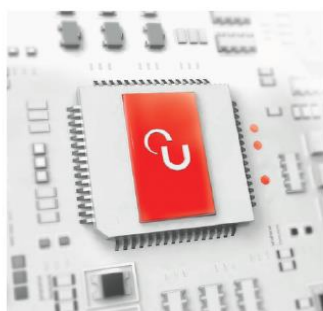
Low voltage drop MOS technology for communication without voltage drop



Exceptional compactness



100% made in France (design, build, electronic card, mechanics...)

Designed, made  
in France**MOS  
LOW VOLTAGE DROP  
TECHNOLOGY**

The UNIMOS range is revolutionizing the market of battery isolators. UNIMOS distributes the charge of your alternator on each of your batteries without loss of power while isolating each battery to prevent them from unloading each other.

Thanks to its latest generation electronics (Low Voltage Drop MOSFET) combined with its power connectors directly soldered on the electronic board, UNIMOS offers:

- exceptional compactness (up to  $\times 5$  smaller),
- Up to  $\times 10$  less power loss compared to other MOSFET battery Isolators on the market,
- a faster charge,
- a gain in energy and / or fuel.



UNIMOS 80.24/2 Ref 1399  
UNIMOS 120.24/2 Ref 1511  
UNIMOS 160.24/3 Ref 1405  
UNIMOS 200.24/3 Ref 1412

## System

Technology	MOS	MOS	MOS	MOS
Operating voltage	12/24 V	12/24 V	12/24 V	12/24 V
max. intensity	80 A	120 A	160 A	200 A

## Battery

Accepted battery voltage	12/24 V	12/24 V	12/24 V	12/24 V
number of outputs	2	2	3	3

## Charge

max. current	80 A	120 A	160 A	200 A
voltage drop	10 A	0 V	0 V	0 V
at end of	20 A	0,01 V	0,01 V	0,01 V
charging	50 A	0,05 V	0,05 V	0,05 V
cycle				

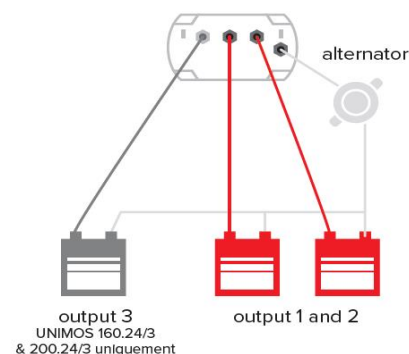
## Alternator

with excitation current (IG terminal)	yes	yes	yes	yes
without excitation current	yes	yes	yes	yes
max. current	80 A	120 A	160 A	200 A

## Mechanical characteristics

Operating temperature	-20°+60°C	-20°+60°C	-20°+60°C	-20°+60°C
Storage temperature	-30°+80°C	-30°+80°C	-30°+80°C	-30°+80°C
Dimensions in mm (wxhxd)	110×70×35	110×70×35	145×85×35	145×85×35
Weight	125 g	135 g	300 g	300 g

## CENTRALISED CHARGING MANAGEMENT



## OPTIMISED RESTITUTION

Load distributor		
with a diode	with a standard MOS system	UNIMOS
compactness		
- -	+	+++
restituted charging power		
-	+	+++
loss 3 > 6%	loss 0,5 > 4%	loss 0,01 > 0,5%
restituted charging voltage		
-	+	+++
loss 0,7 V	loss 0,1 > 0,2 V	loss 0,01 V

## PERFECT CHARGE

UNIMOS Guarantees a 100% charge of your battery

Load distributor		
with a diode	with a standard MOS system	UNIMOS
alternator charging power		
14,2 V	14,2 V	14,2 V
voltage drop due to cable (2%)		
-0,3 V	-0,3 V	-0,3 V
voltage drop due to distributor		
-0,7 V	-0,2 V	-0,01 V
output voltage from distributor		
13,2 V	13,7 V	13,9 V
Battery's charging level (end of charge 13,9V floating)		
80% -0,7 V	90% -0,2 V	100% 0 V