



System	UNIPROTECT 80.24 C Ref 4208	UNIPROTECT 160.24 C Ref 4222
Battery voltage	12/24 V	12/24 V
Continuous current	80 A	160 A
Max. current		
30 sec.		
10 sec.		
1 sec.		
0,2 sec.		
Self-consumption		
Setting mode	5 mA	5 mA
Normal™ mode	0,6 mA	0,6 mA
Low voltage cut-off	0,2 mA	0,2 mA
Disconnection/Reconnection/ Deactivation Delay		
Disconnection (factory 12V / 24V)	9,3V to 12,4 V / 18,6V to 24,6V	
Reconnection (factory 13V / 26V)	Udiscon. + 0,1V to 13,8 V / Udiscon. + 0,2V to 27,6V	
Number of settings	+ 200 config.	
Disconnection delay (factory setting: 90 sec.)	20 to 900 sec.	
Reconnection delay (factory setting: 15 sec.)	10 to 600 sec.	
Alarm delay	10 sec.	
Internal temperature sensor	yes	
Overvoltage protection	yes	
Heat/Thermal protection	yes	

Technology	MOS Low Voltage Drop
Minimum efficiency	98,00%

Settings	Display
Interface	Display
Modes	
Remote control	yes
Alarm control (Alarm) 0.5A max.	yes
Inverter control Unipower Pro (Unipower)	yes
Emergency use	yes
Control after vehicle is turned off (IGNITION OFF).	yes

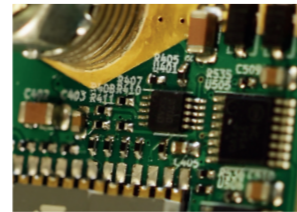
Communication	NFC Contact
Technology	NFC Contact
History Via App	yes

Mechanical characteristics	M6 (5 Nm)	M8 (9 Nm)
Connection screws	M6 (5 Nm)	M8 (9 Nm)
Protection rating		
Electronics	IP67	
Connections	IP00	
Operating temperature	-25°/+60°C	
Storage temperature	-40°/+80°C	
Dimensions (L x H x D) in mm	105 x 46 x 22	105 x 60 x 25
Weight	250g	470g

Warranty	2 years	2 years
Period	2 years	2 years



### TECHNOLOGY MOS WITH LOW VOLTAGE DROP



Uniprotect is equipped with MOS low voltage drop technology, which enables switching without voltage drop.

### DIGITAL DISPLAY FOR EASY ADJUSTMENT



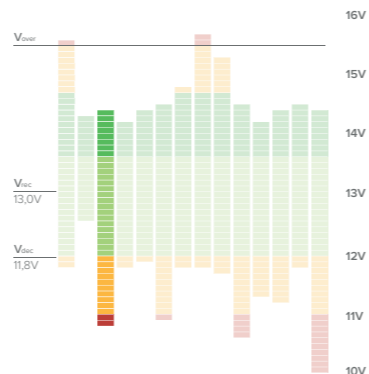
Its display makes it easy to set connection/disconnection parameters (voltage, temperature, alarm, mode activation).

### CONTROLLING A UNIPOWER INVERTER



Thanks to its Unipower control terminal, Uniprotect also allows for the control of an Unipower Inverter (On/Off) simultaneously with the OUT output, ensuring the battery is fully preserved.

### HISTORY VIA UNIAPP APPLICATION



The UNIAPP application gives you smartphone access to 6 months of historical data for precise monitoring of your system.

### Low voltage battery protection

# COMPACTNESS AND PERFORMANCE



UNIPROTECT is an electronic power switch designed to open or close a DC 12V or 24V electrical connection to protect your electrical devices and battery from overvoltage or undervoltage, thereby extending their lifespan.

With its cutting-edge electronics combined with Direct-To-PCB power connectors, UNIPROTECT offers unprecedented compactness and unmatched performance compared to current market products, featuring extremely low voltage drops.

Thanks to its fully resin-coated circuit board, UNIPROTECT is protected against humid environments and mechanical vibrations. Eco-designed, its resin is made up of 85% starch.

Its digital display enables simple and precise adjustments, offering over 200 settings. Its usage history, accessible via the Uni App, provides up to 500 days of data.

UNIPROTECT also features two outputs:

**ALARM Output:** Signals critical situations and alerts the user through an LED indicator or buzzer (to be provided).

**UNIPOWER Output:** Controls a DC-AC converter simultaneously with the UNIPROTECT OUT output or with a positive or negative voltage offset (from 0.1 to 0.4V), enabling priority management between power sources (12V/24V or 230V).

UNIPROTECT includes a manual control via the REMOTE Input, allowing it to be operated using a push button or the vehicle's +APC (After-Contact) signal.

An EMERGENCY Input enables the activation of the UNIPROTECT output in extreme situations, even when the OUT output is in safety mode. Once triggered, the OUT output remains active for 4 minutes.

When installed in a vehicle, the IGNITION Input ensures that the output is activated only while the engine is running and deactivates with a delay of 30 minutes to 72 hours after the engine stops.



500 days of history via the UNIAPP application

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

Low voltage drop MOS technology for a switching without voltage drop

Exceptional compactness

100% made in France

Eco-designed, made in France

