XEC: Supercap Battery Module

Dixell presents the new Supercap Battery Module which allows the valve closure in case of power failure.

The XEC Supercap Battery Module is designed to be used with Dixell products, both in air conditioning and in refrigeration fields; it allows the valve closure in case of power failure.
It is compatible with some drivers for stepper EEV management such as the XEV20D, the XEV22D, the IEV22D and the IEV24D, and with controllers for multiplexed applications with stepper EEV such as the XM668D and the XM678D.

Dixell S.r.l. - Z.I. Via dell'Industria, 27 - 32010 Pieve d'Alpago (BL) ITALY
Tel. +39.0437.9833 r.a. - Fax +39.0437.989313 - EmersonClimate.com/Dixell - dixell@emerson.com

1 COMPATIBILITY with DIXELL PRODUCTS

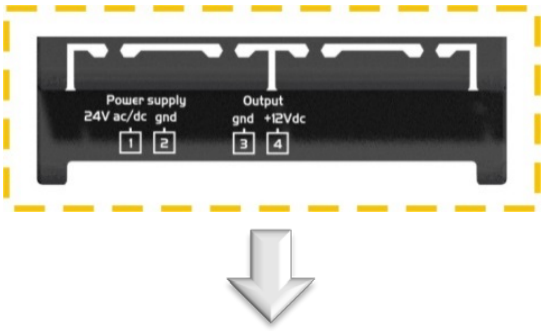
The XEC Supercap Module is actually compatible with the following Dixell models:

	Model	Version	Description
AIR CONDITIONING	XEV20D	2.3b	Drivers for stepper EEV management
	IEV22D and IEV24D	---	
REFRIGERATION	XEV22D	1.5	
	XM668D and XM678D	2.6	Controllers for multiplexed applications

This list is subject to increase in the future with the addition of further compatible products.
It is important to verify the compatibility in the user manual of the device connected to the XEC. In case of doubt, it is recommended to contact our Service Department.

2 CONNECTIONS

The XEC Supercap inputs and outputs are described in the sheet below.



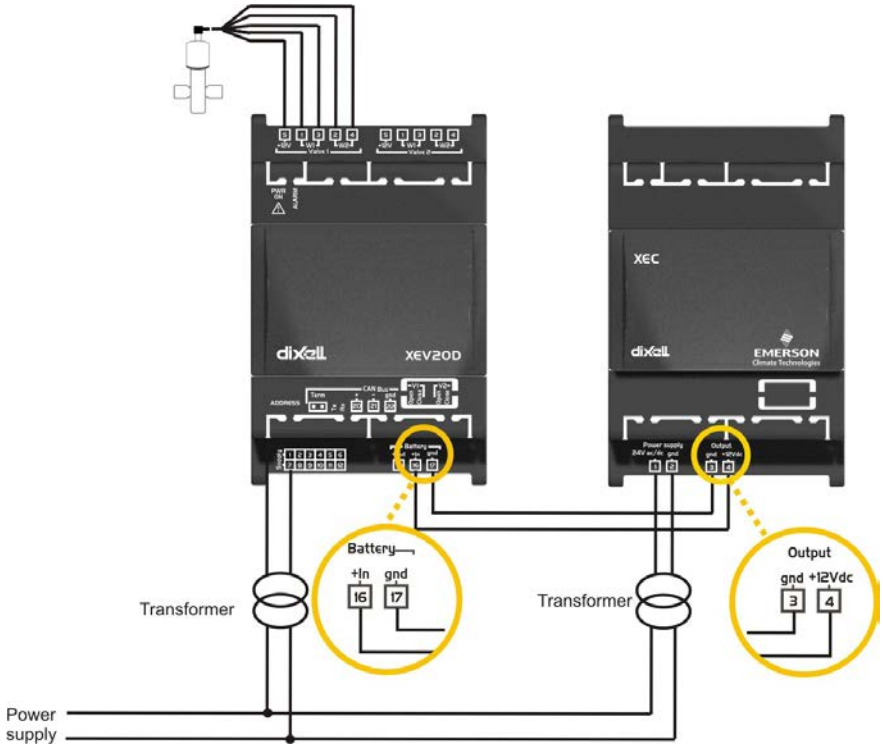
Connector n°	Description
1	24Vac/Vdc (+) power supply
2	24Vac/Vdc (gnd) power supply
3	gnd output
4	+12Vdc output

This module can be easily connected to the above mentioned products. Follow some examples of connection schemes.

2.1 CONNECTION TO AIR CONDITIONING PRODUCTS

2.1.1 CONNECTION TO A DRIVER WITH ONE EXPANSION VALVE

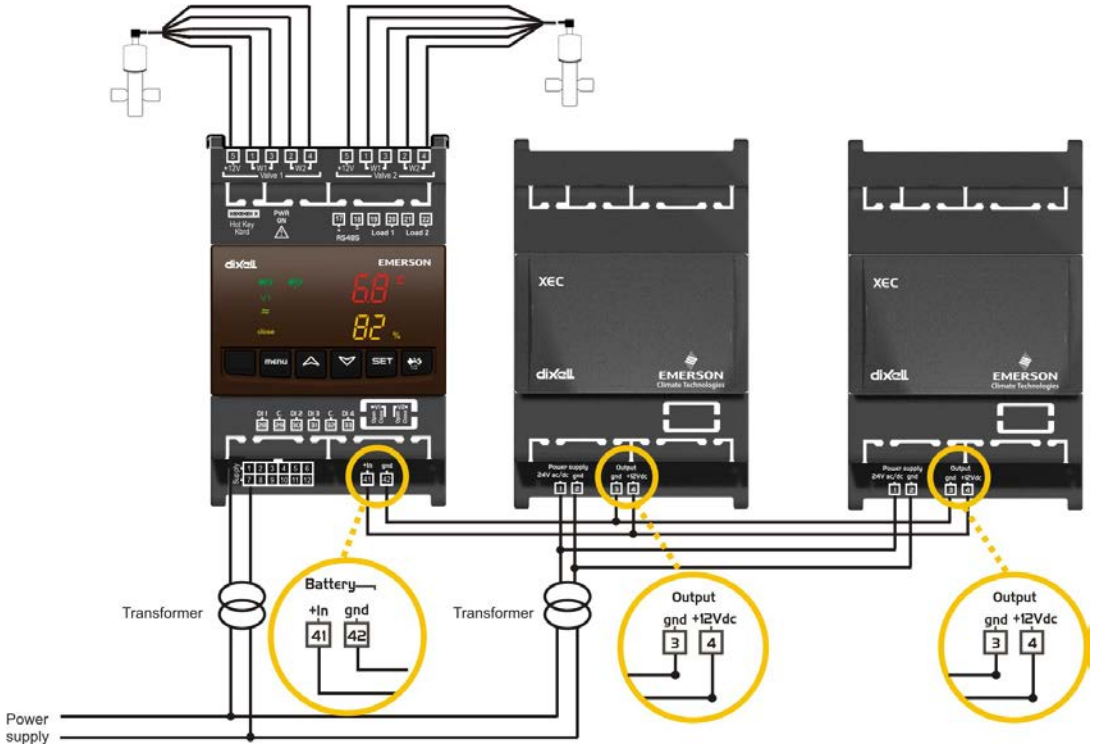
If case of management of only one valve, such as the **IEV22D** driver or the **XEV20D v.2.3b** with the management of only one circuit, the driver has to be connected to one XEC module.
Here below an example of a connection between the XEV20D driver and the XEC module.
The driver and the module must be powered by two different transformers.



Dixell S.r.l. - Z.I. Via dell'Industria, 27 - 32010 Pieve d'Alpago (BL) ITALY
Tel. +39.0437.9833 r.a. - Fax +39.0437.989313 - EmersonClimate.com/Dixell - dixell@emerson.com

2.1.2 CONNECTION TO A DRIVER WITH TWO EXPANSION VALVES

In case of driver with the control of two valves, such as the **XEV20D v.2.3b** or the **IEV24D**, two XEC modules have to be used.
Here below an example of a connection among the IEV24D driver and two XEC modules.
The driver and the modules must be powered by two different transformers.

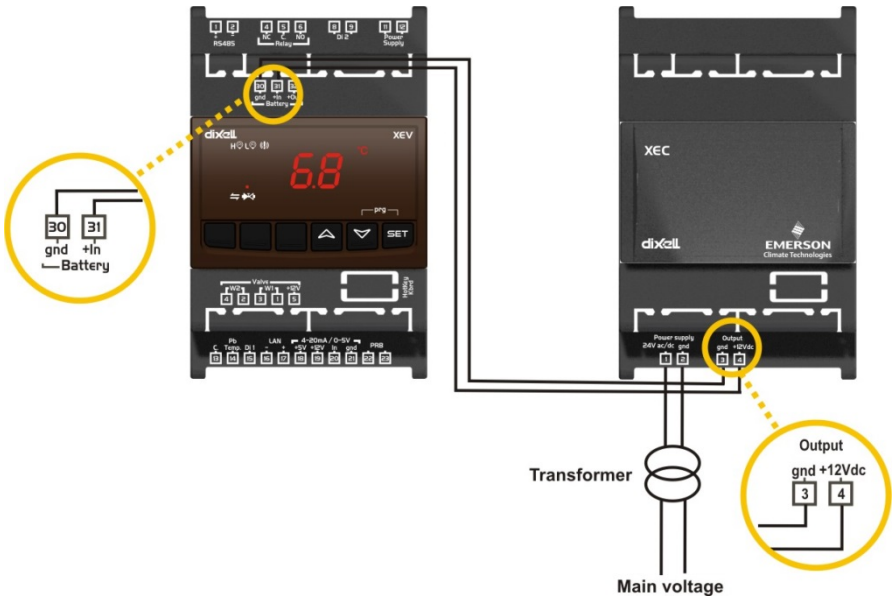


Dixell S.r.l. - Z.I. Via dell'Industria, 27 - 32010 Pieve d'Alpago (BL) ITALY
Tel. +39.0437.9833 r.a. - Fax +39.0437.989313 - EmersonClimate.com/Dixell - dixell@emerson.com

2.2 CONNECTION TO REFRIGERATION PRODUCTS

2.2.1 CONNECTION TO THE XEV22D DRIVER

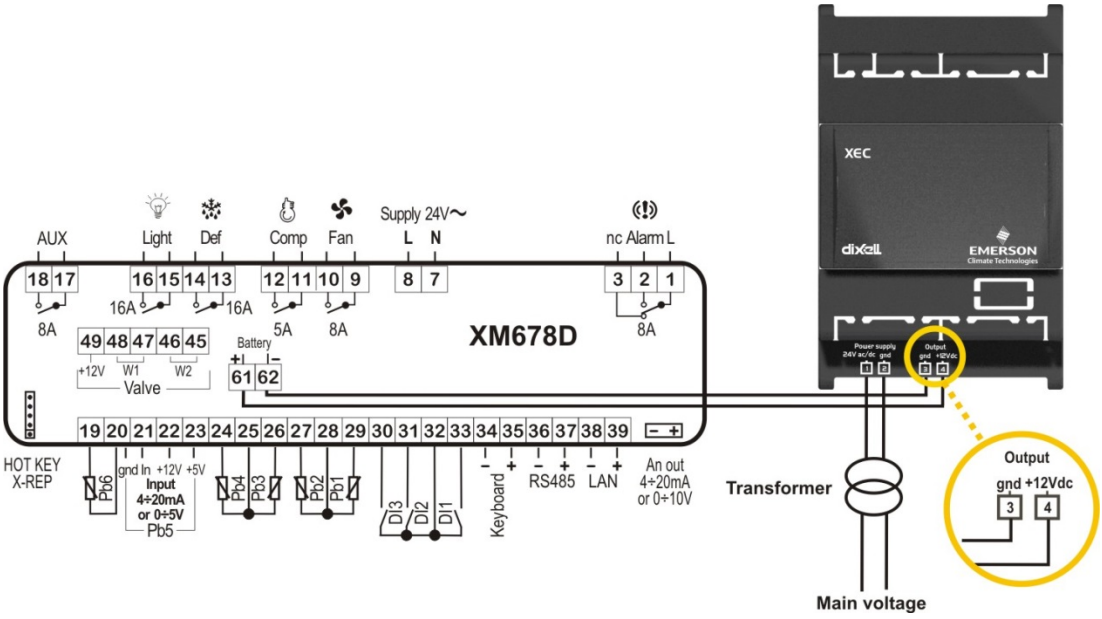
Here below an example of a connection among the **XEV22D v.1.5** driver and the XEC module.
The driver and the module must be powered by two different transformers.



Dixell S.r.l. - Z.I. Via dell'Industria, 27 - 32010 Pieve d'Alpago (BL) ITALY
Tel. +39.0437.9833 r.a. - Fax +39.0437.989313 - EmersonClimate.com/Dixell - dixell@emerson.com

2.2.2 CONNECTION TO THE XM668D/XM678D CONTROLLERS

The two controllers can be connected to the Supercap Battery Module in the same way. Here below an example of a connection among the **XM678D v.2.6** controller and the XEC module.
The controller and the module must be powered by two different transformers.

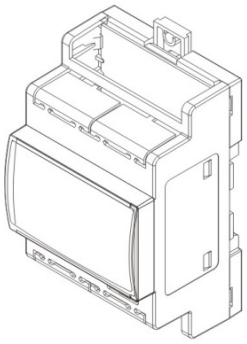


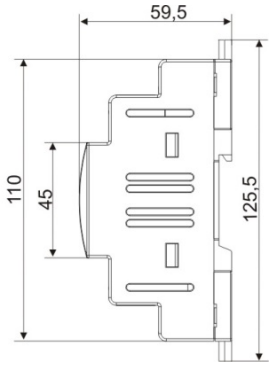
Dixell S.r.l. - Z.I. Via dell'Industria, 27 - 32010 Pieve d'Alpago (BL) ITALY
Tel. +39.0437.9833 r.a. - Fax +39.0437.989313 - EmersonClimate.com/Dixell - dixell@emerson.com

3 TECHNICAL FEATURES

Power supply	24Vac/dc
Output	12Vdc
IP protection	IP20
Power consumption	12VA
Max. current	1.2A
Charging time	1min
Max. current in charging time	350mA
Input/output max. length	50cm
Max. n. valves closure after a complete charging time	1
Connector	Screw extractable connector (wire ≤2.5mm^2)

4 DIMENSIONS





5 HOW to ORDER

XEC – 0 0 0 0 0
XEC – 1 0 0 0 0 (open board version)

6 PRICES

Contact our sales department for prices.

7 AVAILABILITY and ORDERS

The XEC Supercap battery module is available with standard delivery time.