Air Solar
SOLUTIONS
AN AIRWELL GROUP BRAND

FRENCH BRAND

GUIDE TO OUR SOLAR SOLUTIONS
2023/2024

SEPTEMBER 2023

Just feel green

GROUPE AIRWELL

VÄLLEN GRÄSMATT

Table of contents

YOUR FRENCH REFERENCE
for over 75 years

Airwell, a French thermal and solar equipment manufacturer committed to the energy transition

A French referenced brand for professionals

As an expert and creator of climate and thermal solutions, Airwell's mission is to create and cultivate well-being. Airwell is committed to:

Reinventing uses
→ To limit our environmental footprint.

Optimising consumption
→ To consume less and better.

Promoting solar energy
→ To preserve natural resources.

Historical French manufacturer

1947	Creation of the Airwell Group, the French pioneer in heat pumps.
1970	Airwell becomes the leading European heat pump manufacturer. Leader in Europe and Africa.
2008	Industrial disengagement and restructuring of the Airwell Group.
2014	Launch of the Airwell 2.0 strategic project (the transformation from a heat pump manufacturer to a solution provider).
2020	Launch of Hybrid House, AirConnect Pro and Leezy.
2021	Airwell becomes Airwell Group following the acquisition of Airwell Residential by Airwell Distribution.
2022	Integration of the CSR approach into the strategy and award of the "Innovative Company" label by BPI France.

GROUPE AIRWELL

72
employees

200+
business partners

70+
service partners

Airwell operates in
80
countries

INNOVATION · SERENITY · COMFORT
LISTENING · COMMITMENT

Airwell manifesto

A vision for the future.

This is how Airwell was born in 1947. With the crazy idea of bringing innovative solutions from the United States that did not yet exist in Europe: air conditioning.

Today, innovation is more than ever at the heart of Airwell, as we have become leaders in the creation of thermal and climatic solutions. A deeply human innovation, listening to consumers.

Just like the family spirit that defines Airwell, based on wellbeing and respect for everyone's expectations.

Optimising our energy consumption, favouring solar energy to preserve our natural resources, reinventing consumer uses to limit our environmental footprint, cultivating the comfort of each interior...

At Airwell, we are committed to this for the well-being of everyone and the eenvironment.

"What was our ambition became our mission."

Yes, energy solutions must be intuitive in their management and use.

Yes, they must reduce the ecological and economic impact of housing.

Yes, the world of tomorrow must be built around a single principle: the serenity of each individual.

"And we are convinced of this."

Our most beautiful energy story is you.

WANT TO INVEST AND BECOME A CONTRIBUTOR IN THE ENERGY TRANSITION?

A propitious context:

- Airwell, the French reference for heat pumps
- A market driven by new environmental standards
- A CSR approach at the heart of Airwell
- A strategy of conquest driven by the new management
- Airwell, French expert and manufacturer since 1947
- Innovative energy-efficient solutions

I BECOME A SHAREHOLDER

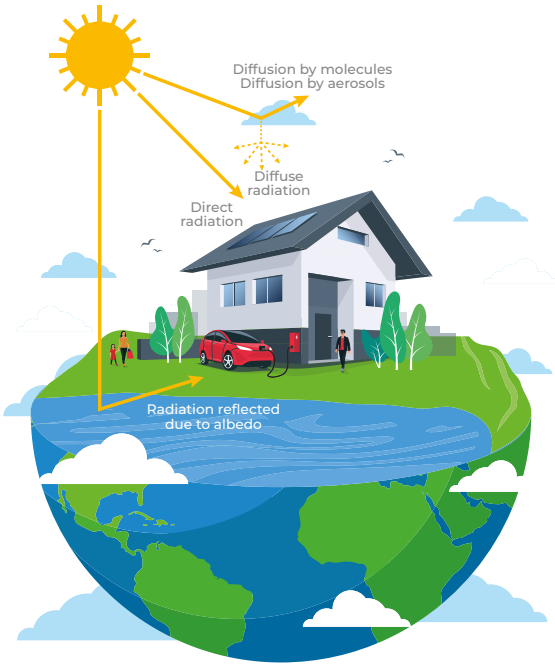
All the steps are detailed on our website:
https://groupe-airwell.com/en/become-a-shareholder/

Some basic photovoltaic solar energy concepts

Photovoltaic solar energy consists in recovering some of the energy present in the sun's rays (photons), and then converting it into direct current. In contact with a semi-conductive material such as silicon*, a photon will mobilise electrons and thereby create electricity; this is the role of the modules, whose power is expressed in peak Watts.

- Peak Watts is the power produced by the module with a received irradiance of 1000 W/m2 facing due South.
- The inverter or micro-inverter is the device used to convert the direct current produced by the modules into alternating current meeting the standards in force.

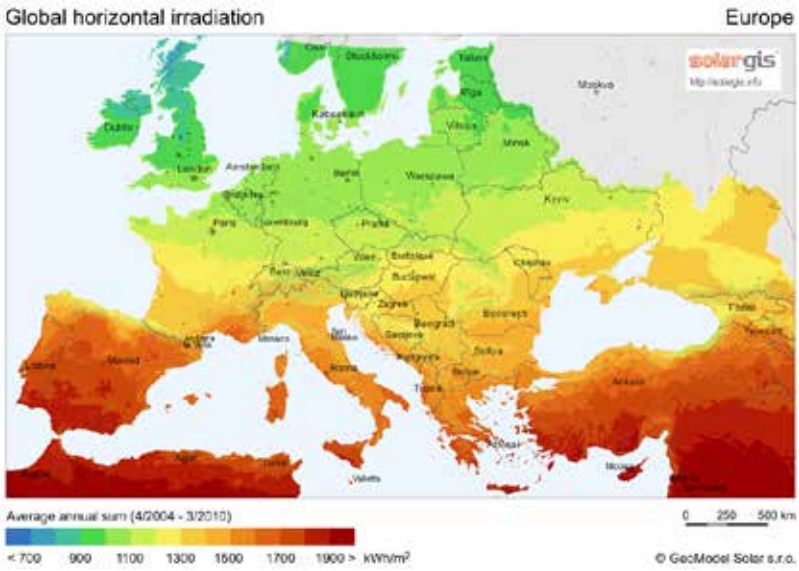
THE MOLECULES IN THE ATMOSPHERE DIFFUSE THE SOLAR RADIATION (IRRADIANCE)



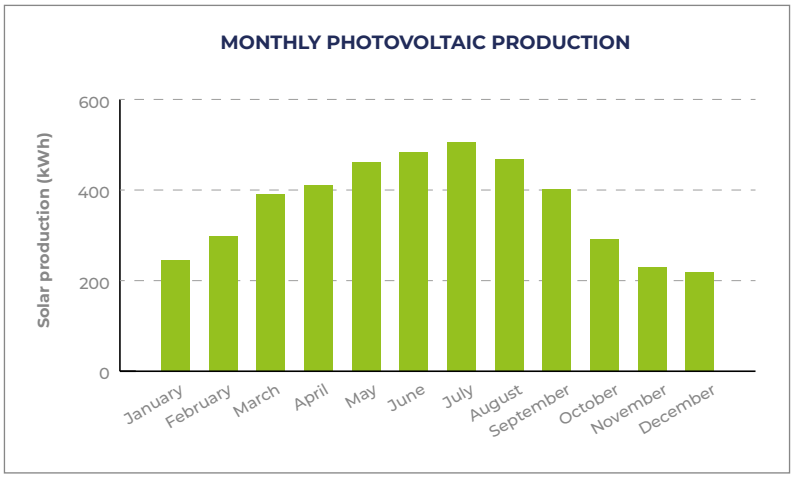
- Extraterrestrial solar constant= 1367 W/m²
- Terrestrial solar constant= 1000 W/m²

* Silicon is distinguished from the other metalloids primarily by its geological abundance. It is the 3rd most abundant element in the world, and the 2nd most abundant in the Earth's crust.

EXPECTED AVERAGE SOLAR RADIATION IN EUROPE



EXAMPLE: INSTALLING AN AIRSOLAR 3 kWp PHOTOVOLTAIC SYSTEM IN MONTPELLIER (FRANCE)



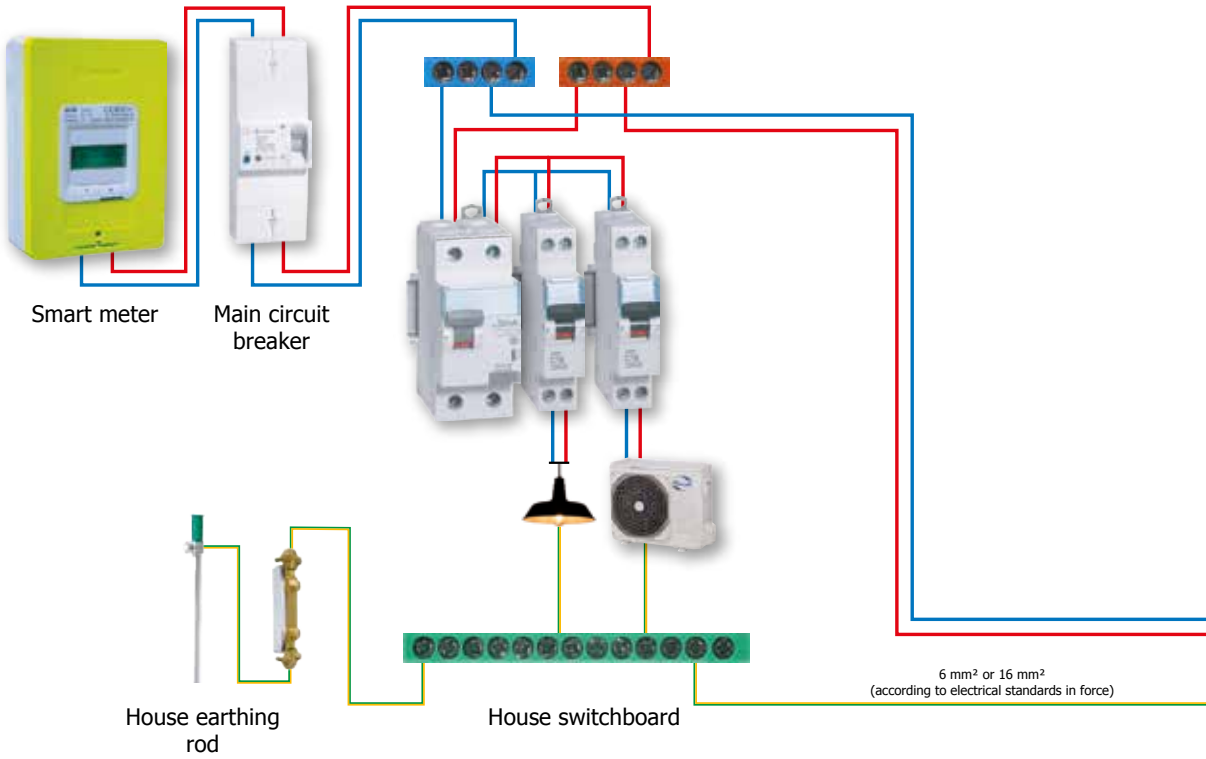
(Source PVGIS)

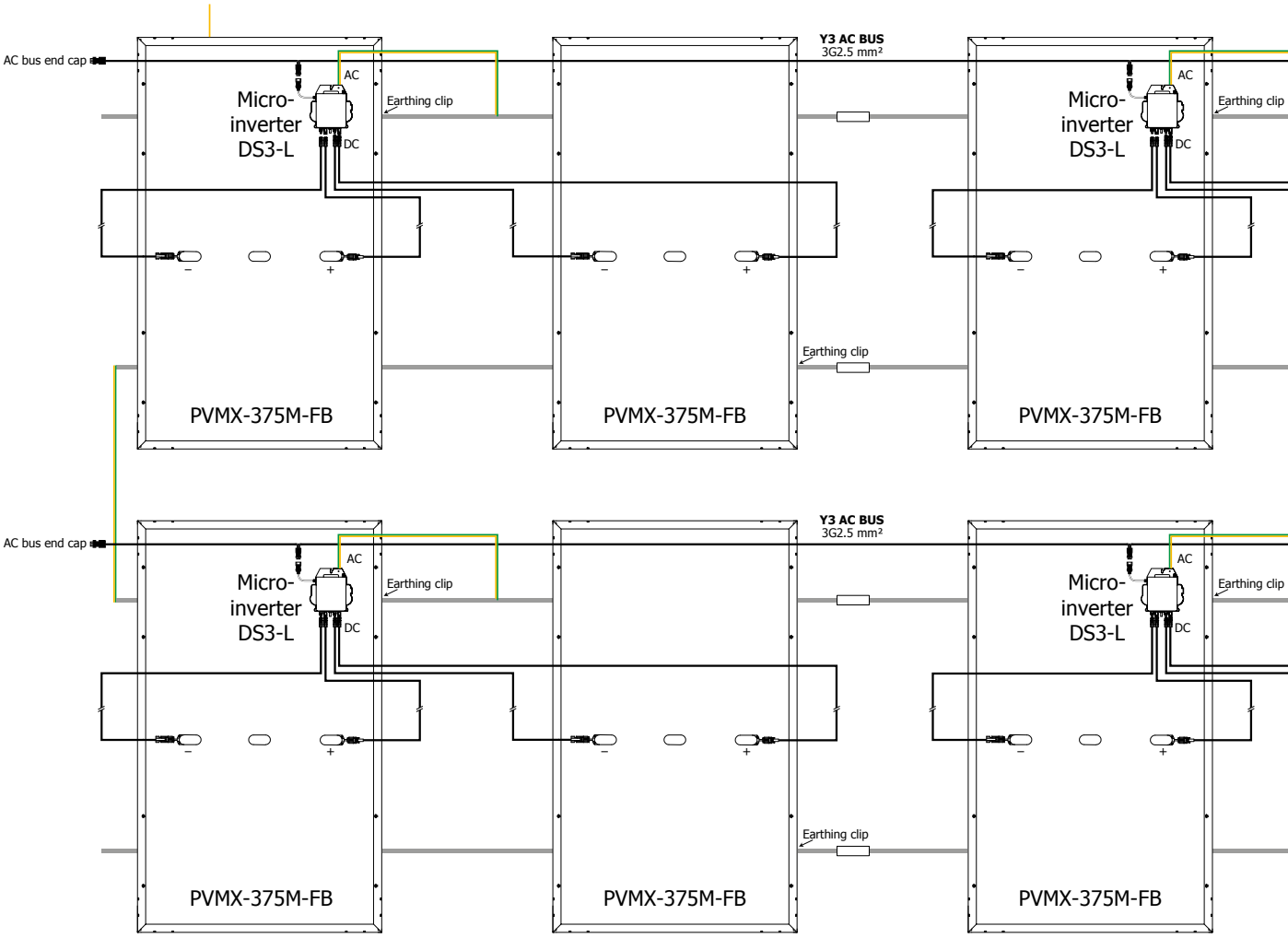
- **Total annual production:** 4400 kWh
- **Total annual irradiation:** 1907 kWh/m²

EXAMPLE OF RE KIT: CLOSE-UP OF PHOTOVOLTAIC INSTALLATION

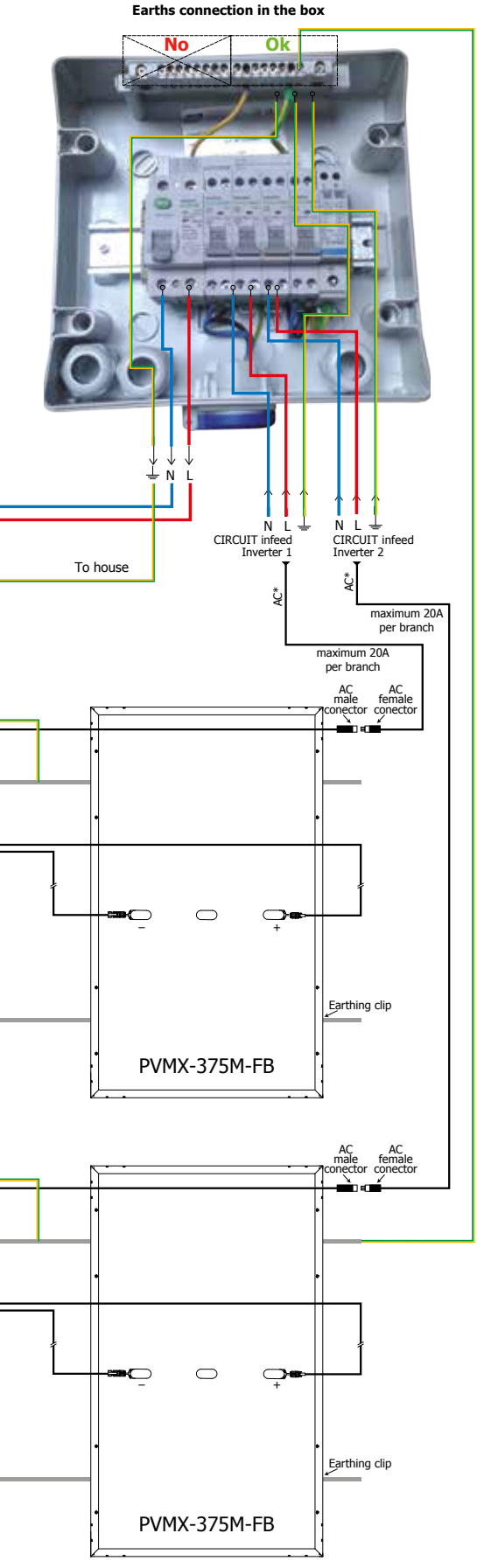
Example of connecting an AirSolar 3 kWp single-phase installation

SELF-CONSUMPTION INSTALLATION, SELLING ON THE SURPLUS





AC single-phase switchbox < 6kWp (AirSolar)



USEFUL INFORMATION

- The photovoltaic unit must be installed in accordance with the electrical standards in force in the country.
- A differential circuit breaker and/or an additional differential switch in the house's switchboard may be required, in accordance with the electrical standards in force.
- You may need to install an equipotential link between the modules frame and the micro-inverters, as well as the mounting rails.
- Please note that photovoltaic solar collectors generate low-intensity leakage currents in the frames, but these are sufficient to cause galvanic corrosion. The anodising or even the composition of the different conductors may be different. When two different metals are subjected to a current flow, one of the two metals will gradually be destroyed until the continuity of the connection is lost. To avoid this, it is essential to comply with the standards in force.
- * The AC cable cross-section must be determined in accordance with the electrical standards in force. To do so you can refer to the charts of available electrical cable cross-sections.

PVMX-375M-FB, PVMX-410M-FB & PVMX-500M-FB

Air Solar SOLUTIONS
AN AIRWELL GROUP BRAND

NEW

+ PRODUCT PVMX

- High-performance monocrystalline cells
- Ideal for self-consumption
- Anti-reflective glass
- Half cell for reduced resistive losses
- Full-black design
- Compatible with all roof installation systems

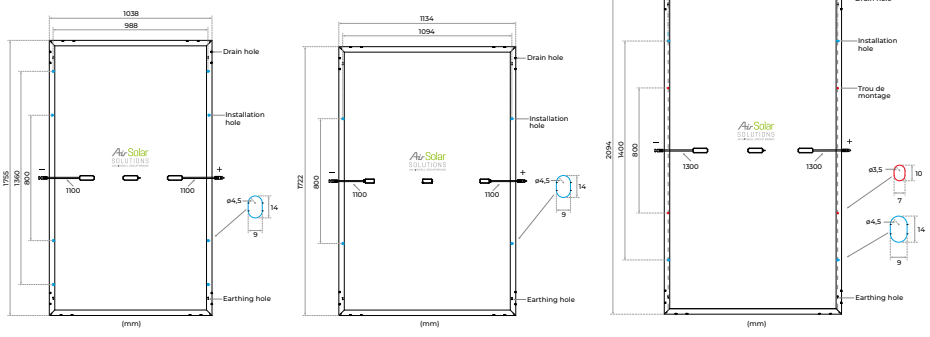
QUALITY & SECURITY

IEC
IEC61215 & IEC61730 STANDARD QUALITY

CE

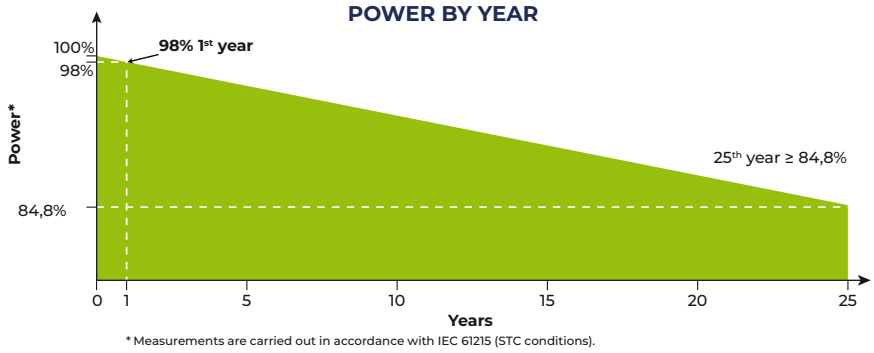
> A reliable photovoltaic module range, able to withstand various climate conditions.
> High-performance, with low linear power loss after 25 years.
> Blends in discreetly on the roof with an all-black finish.

DIMENSIONS



PVMX-375M-FB | PVMX-410M-FB | PVMX-500M-FB

POWER BY YEAR



* Measurements are carried out in accordance with IEC 61215 (STC conditions).

INSTALLATION MANUAL

> PVMX:

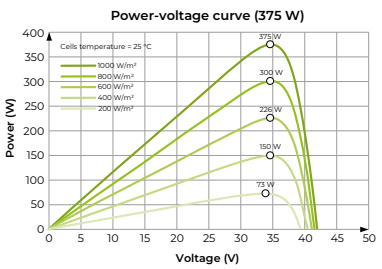
Click or flash

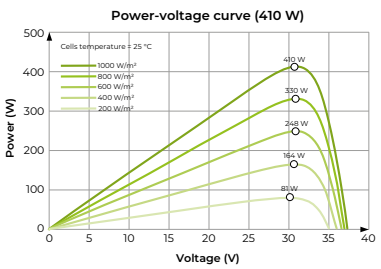
TECHNICAL DATA

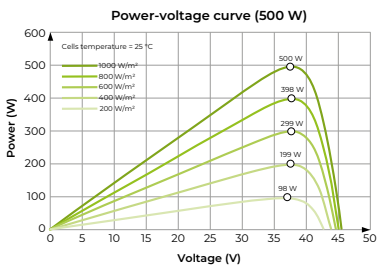
		NEW		
MODEL		**PVMX-375M-FB**	**PVMX-410M-FB**	**PVMX-500M-FB**
Part number		**2EN230004**	**2EN230005**	**2EN230006**
PHOTOVOLTAIC CHARACTERISTICS (STC: 1000 W/M², AM 1.5, 25°C)				
Maximum power (Pmax)	Wp	375	410	500
Maximum power voltage (Vmpp)	V	34.10	31.09	37.84
Intensity at maximum power (Impp)	A	11.01	13.20	13.22
Open circuit voltage (Voc)	V	41.89	37.33	45.60
Short-circuit current (Isc)	A	11.43	14.06	14.07
Pmax output power tolerance	%	0 / +3	0 / +3	-1 / +3
PV module efficiency	%	20.59	21.00	21.06
PHYSICAL CHARACTERISTICS				
Length x Width x Thickness	mm	1755x1038x35	1722x1134x30	2094x1134x35
Weight	kg	21	21.2	26
Diameter / Cable length	mm² / mm	4 / 1100	4 / 1100	4 / 1300
Connector type		MC4-Evo 2 (STÄUBLI)	MC4-Evo 2 (STÄUBLI)	MC4-Evo 2 (STÄUBLI)
Cell type		Monocristallin PERC	Monocristallin PERC	Monocristallin PERC
Number of cells		120 (6x20)	108 (6x18)	132 (6x22)
Application class		II	II	II
Junction box (3 diodes)		IP68	IP68	IP68
OPERATIONAL CHARACTERISTICS				
Operating temperature	°C	-40 / 85	-40 / 85	-40 / 85
Fire reaction class	Class	C	C	C
Maximum load (snow / wind)	Pa	5400 / 2400	5400 / 2400	5400 / 2400
Maximum system voltage	V	1500	1500	1500
Courant maximal inverse	A	20	25	25
TEMPERATURE COEFFICIENTS				
Nominal module operating temperature (NMOT)	°C	42 ± 3	42 ± 3	42 ± 3
Current temperature coefficient (Isc)	% / °C	0.0487	0.0448	0.0448
Voltage temperature coefficient (Voc)	% / °C	-0.256	-0.246	-0.246
Power temperature coefficient (Pmax)	% / °C	-0.328	-0.330	-0.330

PVMX-375M-FB | PVMX-410M-FB | PVMX-500M-FB

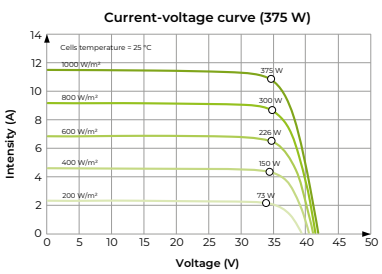
POWER/VOLTAGE CURVES

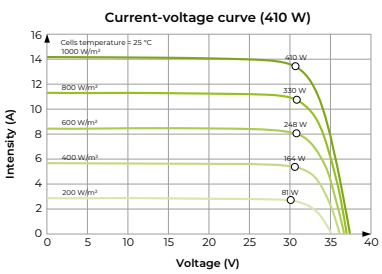


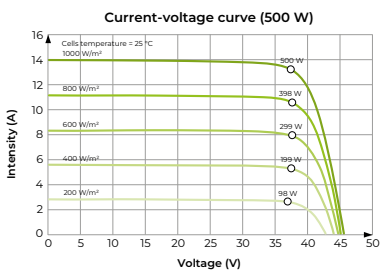




CURRENT/VOLTAGE CURVES







AC 6 KW SINGLE-PHASE

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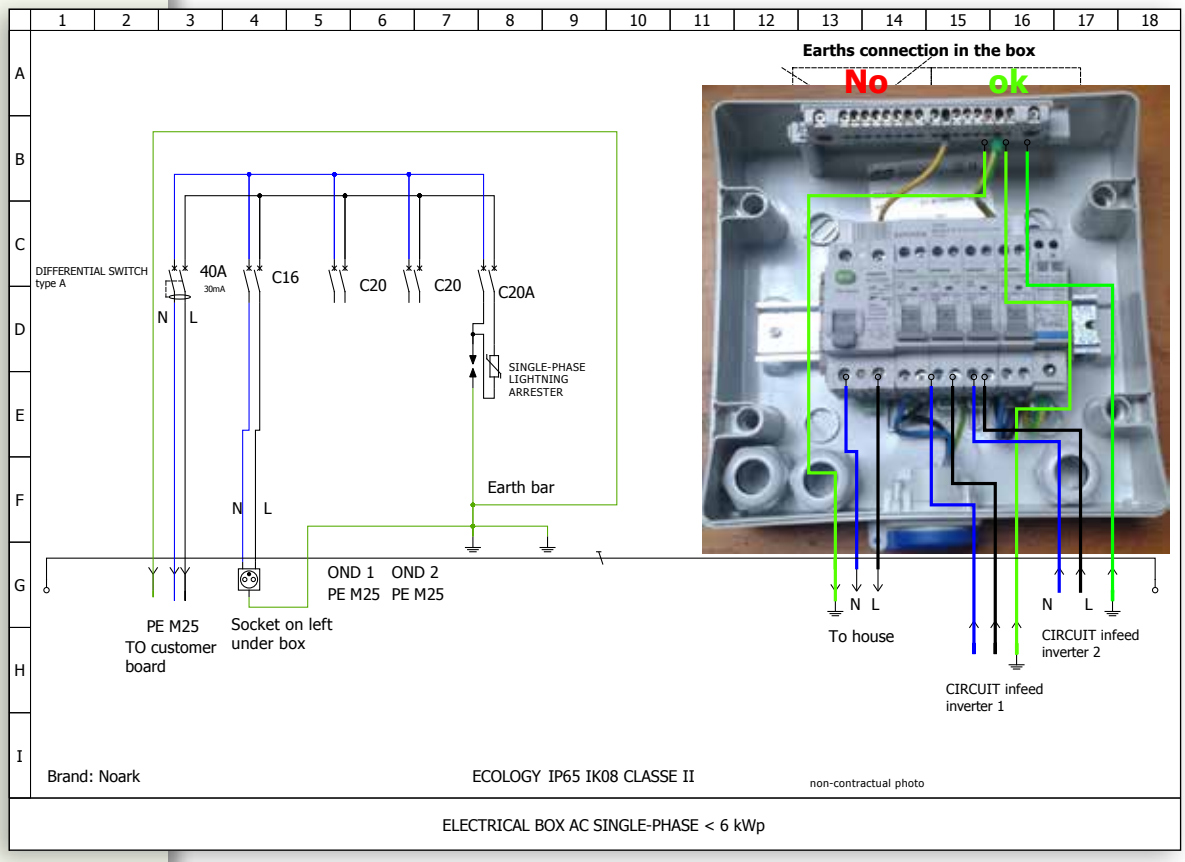
TECHNICAL DATA

ELECTRICAL BOX AC SINGLE-PHASE < 6 kWp

> Part number: 2ACEL0002



ELECTRICAL BOX AC SINGLE-PHASE < 6 kWp

AC 9 KW THREE-PHASE

Air Solar SOLUTIONS
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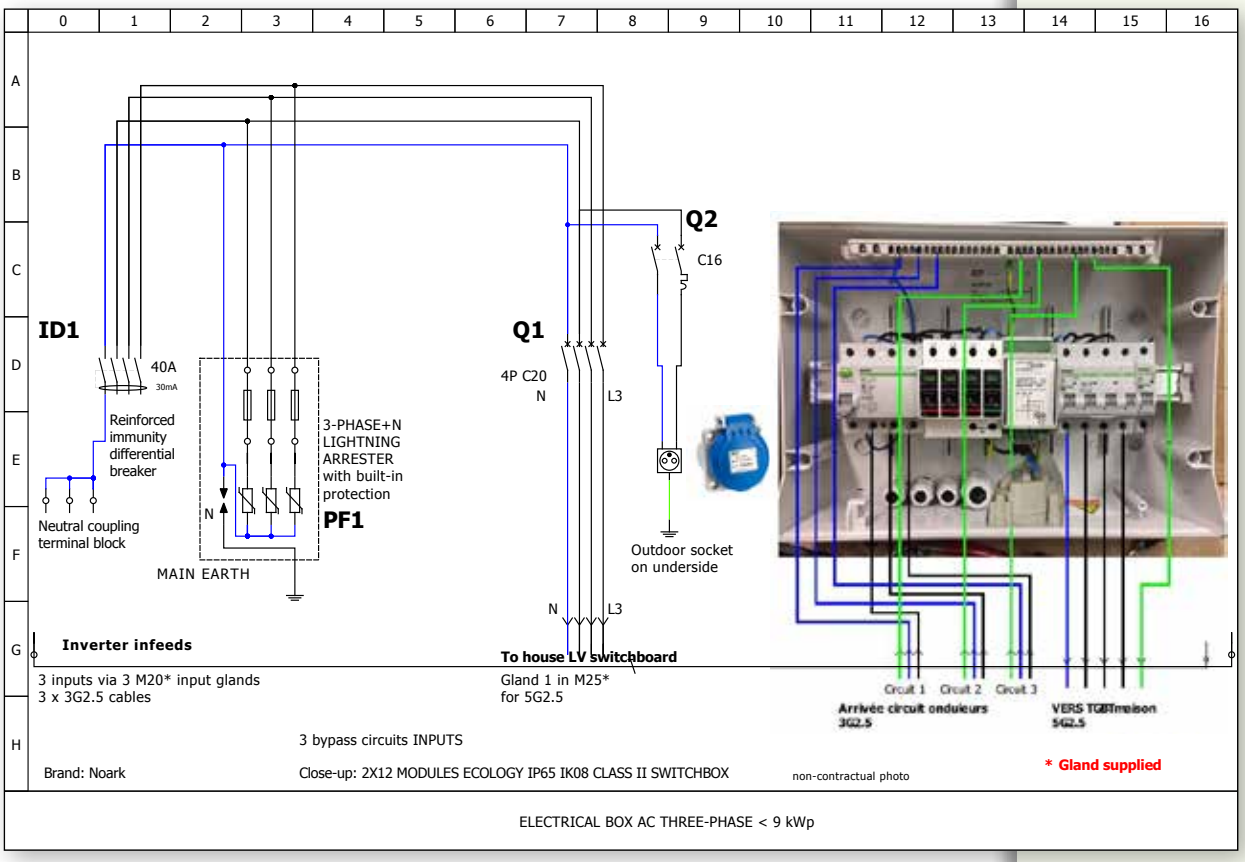
TECHNICAL DATA

ELECTRICAL BOX AC THREE-PHASE < 9 kWp

> Part number: 2ACEL0007



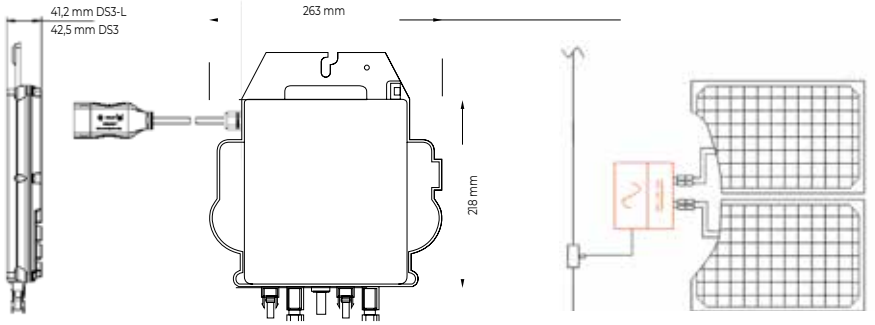
ELECTRICAL BOX AC THREE-PHASE < 9 kWp

DS3-L & DS3

NEW

- Better performance with 97% efficiency and unique integration with 20% fewer components.
- DS3-L and DS3 are innovative grid-connected micro-inverters with power factor management features (RPC: Reactive Power Control).
- They use the latest communication technologies, enabling intelligent management and monitoring of the installation by adjusting the power factor and thus meet the needs of energy suppliers by facilitating the integration of solar energy into the electricity grid.
- They are compatible with the AirHome application, thanks to the ECU-R, ECU-B or ECU-C monitoring gateway.
- Combining high reliability and high efficiency, the DS3-L and the DS3 have 2 independent MPPTs for an output power of 730 VA, 880 VA.
- Real savings for residential and tertiary installations, both on equipment and installation costs.
- The DS3-L and DS3 micro-inverters use the same AC cables and accessories, which means that they can be combined to provide great flexibility on the same installation.

DS3-L & DS3 DIMENSIONS AND WIRING DIAGRAMS



✚ PRODUCT

- Connection up to 2 PV modules
- Compact design
- 97% efficiency
- 2 MPPT for each module
- Maximum output power 730 and 880 VA
- Built-in VDE relays
- Adjustable power factor

WIRING ACCESSORIES

ACCESSORY	PART NUMBER	PICTURE	DESCRIPTION
Y3 standalone cable (1 m)	2334076132		• *1 metre AC bus cable (2.5 mm²). Used for electrical connection between the micro-inverter and the switchbox.*
Y3 AC bus (2 m)	2322304903		• *2 metre AC bus cable (2.5 mm²). Used for electrical connection between the micro-inverter(s) and the switchbox.*
Y3 AC bus (4 m)	2322404903		• *4 metre AC bus cable (2.5 mm²). Used for electrical connection between the micro-inverter(s) and the switchbox.*
AC male connector	2300531032		• *25A AC male connector for AC bus cable.*
AC female connector	2300532032		• *25A AC female connector for AC bus cable.*
AC bus end cap	2060700017		• *AC bus cable end cap. Ensures waterproofing (equivalent to old code 2060700007).*
AC Bus Y-CONN Cap	2061702007		• *AC connection cap. Protects the unused connections on the AC bus cable.*
DC extension cable	2310360214		• *DC extension cable (2 m). Used to extend the distance between the modules and the micro-inverter. Sold individually.*
MC4 Male caps	2060401006		• *Sealing caps for MC4 Male / Female connectors.*
MC4 Female caps	2060402006		
Y unlock tool	2352000001		• *Unlocking tool between the micro-inverter and the AC bus cable.*

INSTALLATION MANUAL

> **DS3-L & DS3:**

Click or Flash

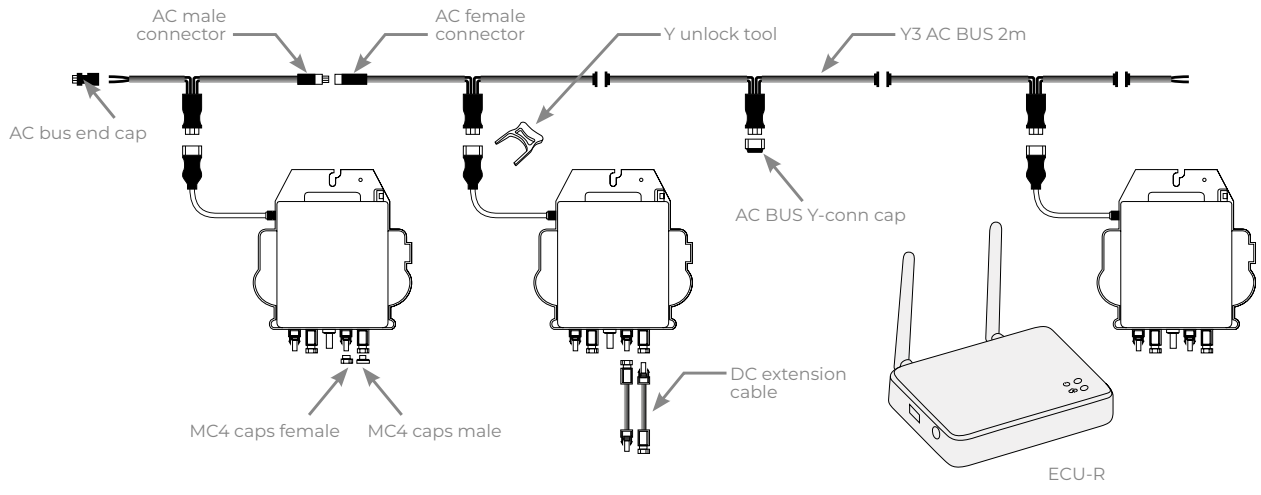
TECHNICAL DATA

		NEW	
MICRO-INVERTER		**DS3-L**	**DS3**
Part number		**2EN250001**	**2EN250002**
INPUT DATA (DC)			
MPPT Voltage Range	V	28-45	
Operating voltage range	V	16-60	
Maximum DC input voltage	V	60	
Maximum DC input current	A	18 x 2	20 x 2
Icc PV	A	22.5	22.5
OUTPUT DATA (AC)			
Maximum output power	VA	730	880
Rated output voltage [1]	V	230/184-253	
Rated output current	A	3.2	3.8
Maximum frequency variation range [1]		50Hz/48Hz-51Hz	
Power factor (Default / Adjustable)		0.99/0.8 advance ... 0.8 delay	
Maximum number of units per 2.5 mm² branch		6	5
EFFICIENCY			
Maximum efficiency	%	97.3	
Rated MPPT efficiency	%	99.5	
Night-time electrical consumption	mW	20	
PHYSICAL CHARACTERISTICS			
Ambient operating temperature range [2]	°C	-40 to +65	
Internal operating temperature range	°C	-40 to +85	
Dimensions (WxHxD)	mm	263 x 218 x 41.2	263 x 218 x 42.5
Weight	kg	2.7	3.1
AC cable section	mm²	2.5	
Connector type		Stäubli MC4	
Cooling system		Convection - No fan	
Protection index		IP67	
CHARACTERISTICS AND COMPLIANCE [3]			
Protocol and communication (between micro-inverters and ECU) [3]		Zigbee encrypted	
Transformer type		High frequency transformer, galvanically isolated	
COMPLIANCE			
Compliance, Security and EMS		EN 62109-1/-2, EN 61000-1/-2/-3/-4, EN 50549-1, PN-EN 50549-1, DIN V VDE V 0126-1-1, VFR 2019, UTE C15-712-1, CEI 0-21, UNE 217002, NTS, RD647, VDE-AR-N 4105, G98, G99, G98/NI, G99/NI	

(1) The voltage frequency range can be extended further if requested by the energy supplier.
(2) The micro-inverter may enter degraded production mode if the installation does not allow proper ventilation or heat dissipation.
(3) A recommended maximum of 80 micro-inverters can be connected to an ECU gateway, to ensure stable communication.

The characteristics may be modified without notice, so make sure that you are in possession of the most recent version, available online from our document library.

CONNECTION EXAMPLE



QT2

NEW

PRODUCT

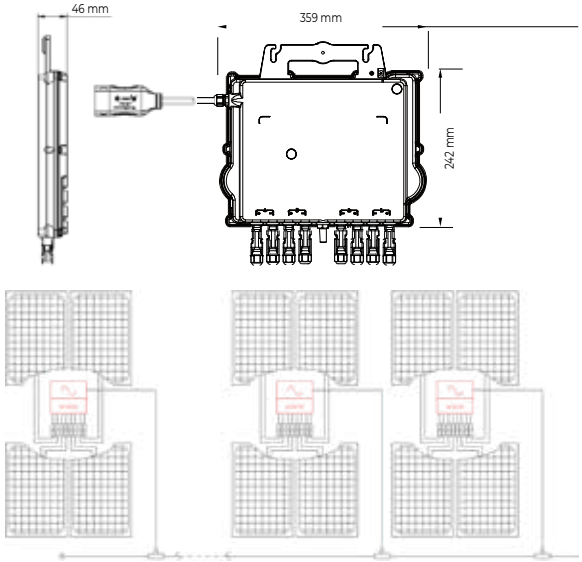
- Designed for connection to a three-phase grid
- 4 low-voltage DC input channels, 2 MPPTs
- A micro-inverter can be connected to 4 PV modules
- Max. continuous AC output power 2000 VA
- Ideal for high-power PV modules (maximum input current 20A)
- Built-in safety protection relay
- Adjustable power factor
- Three-phase output balancing

> The 2nd-generation native 3-phase quad micro-inverters provide an unprecedented output power of 2000 VA to adapt to the current needs of high-power PV modules. With a balanced three-phase output, 4 DC inputs, and encrypted ZigBee signals, QT2 has an all-new architecture.

> The innovative design makes the product unique, while maximising energy production. The components are silicone-encased to reduce the stresses on the electronics, facilitate heat dissipation, improve the sealing properties and ensure maximum system reliability via rigorous test methods, including accelerated service life tests. 24/7 energy access via apps or a web portal facilitates diagnostics and remote maintenance.

> The new QT2 interacts with electrical grids, thanks to a new power factor management feature (RPC), for better management of the photovoltaics and grid power peaks. In addition, it provides 97 % efficiency with 20 % fewer components compared to the previous-generation product. The QT2 is a game-changer in three-phase installations for residential and industrial or tertiary photovoltaic roofs.

QT2 DIMENSIONS AND WIRING DIAGRAMS



ACCESSOIRES DE CÂBLAGE

ACCESSOIRE	PART NUMBER	PICTURE	DESCRIPTIF
5C AC bus (2,4m) for QT2	2322604802		• *2,4 metre three-phase AC bus cable (2.5 mm²). Used for electrical connection between the micro-inverter and the switchbox.*
5C AC bus end cap	2062050005		• *Three-phase AC bus cable end cap. Ensures waterproofing.*
5C AC Bus Y-CONN Cap	2061252032		• *Three-phase AC connection cap. Protects the unused connections on the three-phase AC bus cable.*
25 A AC male connector for 5C AC bus	2300711032		• *25A AC male connector for three-phase AC bus cable.*
25 AC female connector for 5C AC bus	2300812032		• *25A AC female connector for three-phase AC bus cable.*
DC extension cable	2310360214		• *DC extension cable (2 m). Used to extend the distance between the modules and the micro-inverter. Sold individually.*
MC4 Male caps	2060401006		• *Sealing caps for MC4 Male / Female connectors.*
MC4 Female caps	2060402006		
Y unlock tool	2352000001		• *Unlocking tool between the micro-inverter and the AC bus cable.*

INSTALLATION MANUAL

> QT2:

Click or flash

TECHNICAL DATA

		NEW
MICRO-INVERTER		**QT2**
Part number		**2EN250003**
INPUT DATA (DC)		
MPPT Voltage Range	V	28-45
Operating voltage range	V	26-60
Maximum DC input voltage	V	60
Maximum DC input current	A	20 x 4
Icc PV	A	25 x 4
OUTPUT DATA (AC)		
Maximum output power	VA	2 000
Rated output voltage [1]	V	3/N/PE 400V/319V-438V
Output voltage range	V	277V-478V
Rated output current	A	2.9Ax3
Maximum frequency variation range [1]	Hz	50Hz/48-51Hz
Output frequency range	Hz	45Hz-55Hz
Power factor (Ajustable)		0.99/0.8 advance... 0.8 delay
Maximum number of units per 2.5 mm² branch		6
EFFICIENCY		
Maximum efficiency	%	97.3
Rated MPPT efficiency	%	99.5
Night-time electrical consumption	mW	40
PHYSICAL CHARACTERISTICS		
Ambient operating temperature range [2]	°C	-40 to +65
Internal operating temperature range	°C	-40 to +85
Dimensions (LxHxP)	mm	359 x 242 x 46
Weight	kg	6
AC cable section	mm²	2.5
Connector type		Stäubli MC4
Cooling system		Convection - No fan
Protection index		IP67
CHARACTERISTICS		
Protocol and communication (between micro-inverters and ECU)[3]		Zigbee encrypted
Transformer type		High frequency transformer, galvanically isolated
COMPLIANCE		
Compliance, Security and EMS		EN 62109-1, EN 62109-2, EN 61000-6-1, EN 61000-6-3, UNE217002, UNE206007-1, RD647, RD1699, RD413, CEI 0-21, VDE0126-1-1, VFR2019, UTE C15-712-1, ERDF-NOI-RES_13E, EN 50549-1, VDE-AR-N 4105

(1) The voltage frequency range can be extended further if requested by the energy supplier.
(2) The micro-inverter may enter degraded production mode if the installation does not allow proper ventilation or heat dissipation.
(3) A recommended maximum of 80 micro-inverters can be connected to an ECU gateway, to ensure stable communication.

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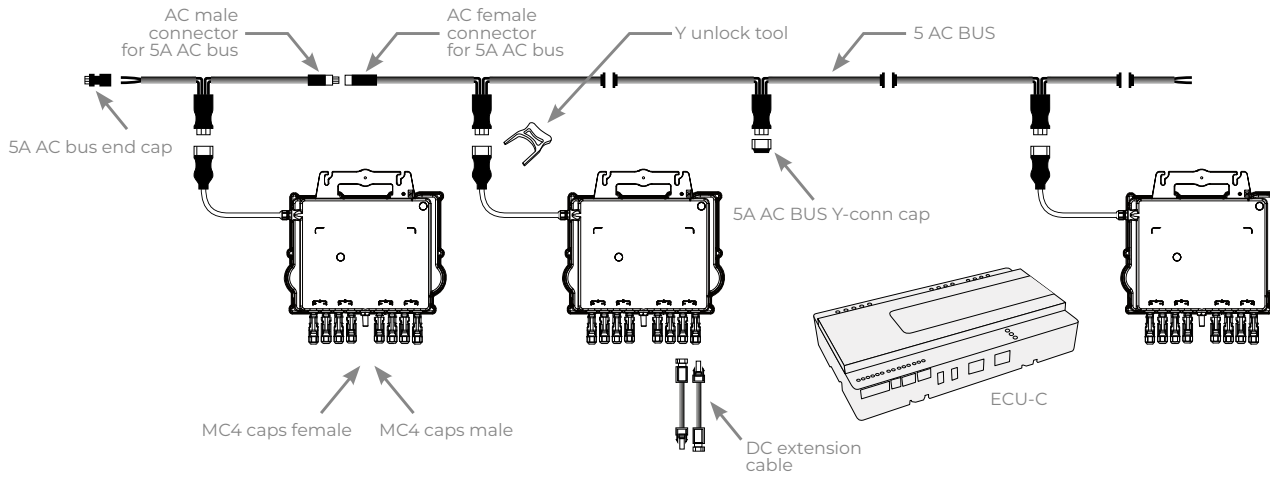
CONNECTION EXAMPLE



Communication and maintenance gateway

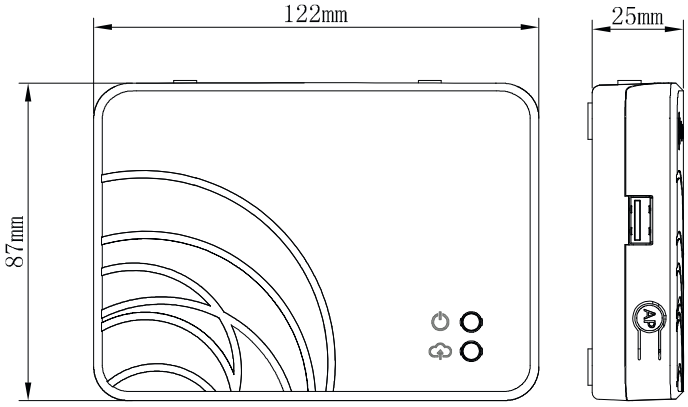
ECU-R

- The new ECU-R communication gateway is packed with technologies operating with our micro-inverters.
- It is able to collect and transfer each module's production data in real time via ZigBee, a fast and robust communication protocol.
- Its detailed monitoring provides you with a comprehensive view, and enables you to check on every module's operation to ensure optimal performance of your solar installation.

+ PRODUCT

- Collects and transmits the production of each photovoltaic module
- Real-time monitoring of each micro-inverter
- Built-in WiFi
- Optimised size, flexible installation

DIMENSIONS



COMMISSIONING

In order to activate the warranty extension and take advantage of our AirHome app's features:

▶ **1.** Airwell must create an access code so that you can access the supervision portal. To do so click here, and fill out the e-mail, entering the requested information, or send your contact details (Surname, forename, e-mail address, phone, company, corp. registration number) to: info@ma-maison-hybride.com After this step, you will be sent an e-mail with your codes as soon as possible.

▶ **2.** Download the EMA Manager app for free on AppStore or Google play.

This app acts as the ECU-B, ECU-R and ECU-C interface, enabling quick configuration and set-up of the installation, and facilitating the commissioning process.

Download on the App Store

GET IT ON Google play

Please use the mobile device's browser to scan the QR codes and download EMA Manager (using the AIRWELL EMA login):

IOS ANDROÏD

Once commissioning is complete, you need only download the AirHome app and register your installation by followingthe instructions.

IOS ANDROÏD

AirHome

INSTALLATION MANUAL

> **ECU-R:**

Click or flash

INSTALLATION GUIDE

> **EMA supervision portal:**

Click or flash

MODEL		ECU-R
Part number		**209018.**
COMMUNICATION TO THE MICRO-INVERTER		
Communication		ZigBee 2.4 GHz
Maximum number of micro-inverters per ECU*		100
COMMUNICATION TO THE SUPERVISION PORTAL		
Ethernet		10/100M Auto-detection, Auto-negotiation
Wireless		WiFi 802.11 g/n /Cellular GSM
Wireless security		WEP, WPA2-PSK
USB interface		5 VDC - Output 0.5 A x 2
POWER SUPPLY DATA		
Power supply		5 V, 2 A
Consumption	W	1.7
PRODUCT CHARACTERISTICS		
Frequency range		2412 MHz-2472 MHz (WiFi), 2405 MHz-2480 MHz (ZigBee)
RF output power (EIRP)		16.56 dbm (WiFi), 9.50 dbm (ZigBee)
Aerial type		Outdoor aerial, SMA connector
Modulation		DSSS, OFDM
Operating mode (Simplex/Duplex)		Duplex
MECHANICAL DATA		
Dimensions (W*H*D)	mm	122x87x25
Weight	g	150
Ambient operating temperature range		-20 to +65
Cooling		Natural convection, no fans
Degree of protection		Indoor - NEMA 1 (IP20)
OTHER FEATURES		
Grid type		Single-phase
COMPLIANCE		
Compliance		IEC 60950-1, EN60950-1, IEC 60529, EN 60529, ANSI/UL 60950-1, CAN/CSA C22.2 No.60950-1, UL50E, FCC part 15, EN61000-6-1, EN61000-6-3, ICES-003, AS NZS 60950-1, GB/T17799

*The maximum number of micro-inverters per ECU may vary according to the size and layout of the PV module, the maximum distance between the ECU and the grid micro-inverters, or any obstacles (thick concrete wall, metal roof).

The characteristics may be modified without notice, so make sure that you are in possession of the most recent version, available online from our document library.

Communication and maintenance gateway

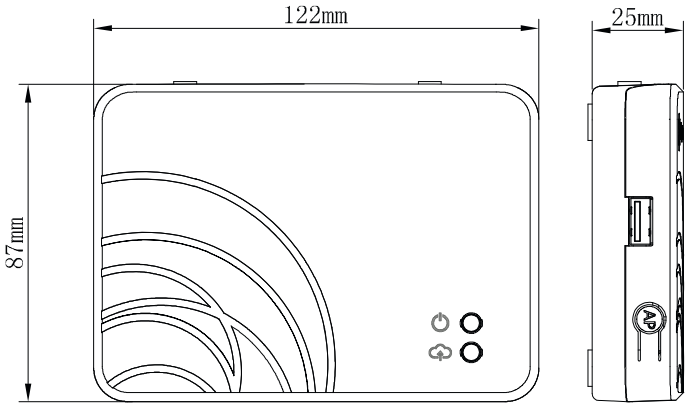
ECU-B

- The new ECU-B communication gateway works with our micro-inverters.
- It is able to collect and transfer each module's production data in real time, for up to 4 photovoltaic modules.
- Using ZigBee as a fast and robust communication protocol, its detailed monitoring provides you with a comprehensive view, and enables you to check on every module's operation to ensure optimal performance of your solar installation.

+ PRODUCT

- Collects and transmits the production of up to 4 photovoltaic modules
- Real-time monitoring of each micro-inverter
- Built-in WiFi
- Optimised size, flexible installation
- Monitors up to 4 modules

DIMENSIONS



COMMISSIONING

In order to activate the warranty extension and take advantage of our AirHome app's features:

- **1.** Airwell must create an access code so that you can access the supervision portal. To do so click here, and fill out the e-mail, entering the requested information, or send your contact details (Surname, forename, e-mail address, phone, company, corp. registration number) to: info@ma-maison-hybride.com After this step, you will be sent an e-mail with your codes as soon as possible.
- **2.** Download the EMA Manager app for free on AppStore or Google play.

This app acts as the ECU-B, ECU-R and ECU-C interface, enabling quick configuration and set-up of the installation, and facilitating the commissioning process.

Download on the App Store

GET IT ON Google play

Please use the mobile device's browser to scan the QR codes and download EMA Manager (using the AIRWELL EMA login):

IOS ANDROÏD

Once commissioning is complete, you need only download the AirHome app and register your installation by followingthe instructions.

IOS ANDROÏD

AirHome

INSTALLATION MANUAL

> **ECU-B:**

Click or flash

INSTALLATION GUIDE

> **EMA supervision portal:**

Click or flash

MODEL		ECU-B
Part number		**211018**
COMMUNICATION TO THE MICRO-INVERTER		
Communication		ZigBee 2.4 GHz
Maximum number of micro-inverters per ECU*		4
COMMUNICATION TO THE SUPERVISION PORTAL		
Wireless		Wi-Fi 802.11g/n /Cellular GSM
Wireless security		WEP. WPA2-PSK
USB interface		5 Vdc - Output 0.5 A
POWER SUPPLY DATA		
Power supply		5 V. 2 A
Consumption	W	1.7
PRODUCT CHARACTERISTICS		
Frequency range		2412MHZ-2472MHZ (WIFI). 2405mhz-2480mhz (ZigBee)
RF output power (EIRP)		16.56 dbm (WIFI). 9.50 dbm (ZigBee)
Aerial type		Outdoor aerial
Modulation		DSSS, OFDM
Operating mode (Simplex/Duplex)		Duplex
MECHANICAL DATA		
Dimensions (W*H*D)	mm	122x87x25
Weight	g	150
Ambient operating temperature range		-20 to +65
Cooling		Natural convection, no fans
Degree of protection		Indoor - NEMA 1 (IP20)
OTHER FEATURES		
Grid type		Single-phase
COMPLIANCE		
Compliance		IEC 60950-1, EN60950-1, IEC 60529, EN 60529, ANSI/UL 60950-1, CAN/CSA C22.2 No.60950-1, UL50E, FCC part 15, EN61000-6-1, EN61000-6-3, ICES-003, AS NZS 60950-1, GB/T17799

*The maximum number of micro-inverters per ECU may vary according to the size and layout of the PV module, the maximum distance between the ECU and the grid micro-inverters, or any obstacles (thick concrete wall, metal roof).

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Communication and maintenance gateway

ECU-C

+ PRODUCT

- Monitoring of AC & DC electrical data
- Communication with centralised supervision system
- Grid zero injection check
- Built-in WiFi
- Suitable for single-phase or three-phase systems
- Module monitoring

INSTALLATION MANUAL

> **ECU-C:**

Click or flash

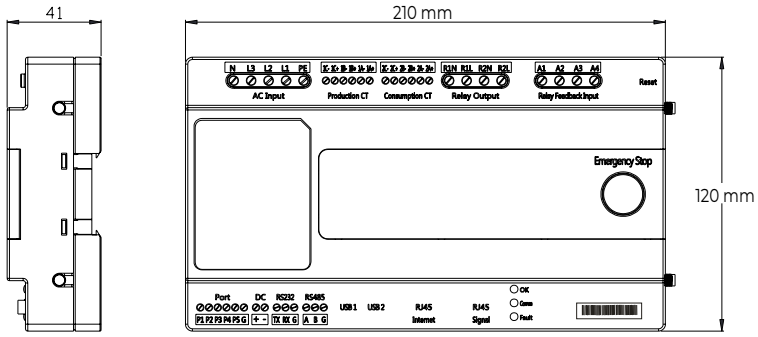
INSTALLATION GUIDE

> **EMA supervision portal:**

Click or flash

> The new ECU-C communication gateway is packed with technologies operating with our micro-inverters.
> It is able to collect and transfer each module's production data in real time via ZigBee, a fast and robust communication protocol.
> This communication gateway also enables you to retrieve consumption data by means of the transformers.
> Its detailed monitoring provides you with a comprehensive view, and enables you to check on every module's operation to ensure optimal performance of your solar installation.

DIMENSIONS



COMMISSIONING

In order to activate the warranty extension and take advantage of our AirHome app's features:

▶ **1.** Airwell must create an access code so that you can access the supervision portal. To do so click here, and fill out the e-mail, entering the requested information, or send your contact details (Surname, forename, e-mail address, phone, company, corp. registration number) to: info@ma-maison-hybride.com After this step, you will be sent an e-mail with your codes as soon as possible.

▶ **2.** Download the EMA Manager app for free on AppStore or Google play.

This app acts as the ECU-B, ECU-R and ECU-C interface, enabling quick configuration and set-up of the installation, and facilitating the commissioning process.

Download on the App Store

GET IT ON Google play

Please use the mobile device's browser to scan the QR codes and download EMA Manager (using the AIRWELL EMA login):

IOS ANDROÏD

Once commissioning is complete, you need only download the AirHome app and register your installation by followingthe instructions.

IOS ANDROÏD

AirHome

TECHNICAL DATA

MODEL		ECU-C
Part number		**205018**
COMMUNICATION TO THE MICRO-INVERTER		
Communication		ZigBee 2.4 GHz
Maximum number of micro-inverters per ECU*		100
COMMUNICATION TO THE SUPERVISION PORTAL		
Ethernet		10/100M Auto-detection, Auto-negotiation
Wireless		Wi-Fi 802.11g/n /Cellular GSM
USB interface		5Vdc - Output 0.5A x 2
RS232		Standard
RS485		Standard
RJ45		Standard
POWER SUPPLY DATA		
AC Power supply		110-277VAC, 50-60Hz Single-phase – (Three-phase optional)
DC Power supply	V	12~16
Consumption	W	3
PRODUCT CHARACTERISTICS		
Frequency range		2412mhz-2472mhz (WIFI), 2405mhz-2480mhz (ZigBee)
RF output power (EIRP)		16.56 dbm (WIFI), 9.50 dbm (ZigBee)
Aerial type		Outdoor aerial, SMA connector type
Modulation		DSSS, OFDM
Operating mode (Simplex/Duplex)		Duplex
MECHANICAL DATA		
Dimensions (W*H*D)	mm	210x120x41
Weight	g	500
Ambient operating temperature range		-40 to +65
Cooling		Natural convection, no fans
Degree of protection		IP20 (NEMA 1)
OTHER FEATURES		
Grid type		Single-phase / Three-phase
Relay driver		Control an external AC contact or relay
Digital input		For connecting an external control device
CT sensor (Tores)		Metering of production and consumption
Measurement accuracy		Integrated metering of PV production (+/- 0,5 % via CT) and optional consumption monitoring (+/- 2,5 % via CT)
COMPLIANCE		
Compliance		EC/EN 61010-1, AS 61010-1, ANSI/UL/CSA 62368-1, CSA C22.2 NO.62368-1-19, Pending:EN 300328, EN 301489-1, EN 301489-17, EN IEC 61000-6-1/-2/-3/-4, EN 62311, FCC Part 15, ICES-003

*The maximum number of micro-inverters per ECU may vary according to the size and layout of the PV module, the maximum distance between the ECU and the grid micro-inverters, or any obstacles (thick concrete wall, metal roof).

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MANDATORY ACCESSORIES

MANDATORY TRANSFORMER WITH ECU-C		
80A transformer for ECU-C		18083020112
200A transformer for ECU-C		18083020012
One transformer per phase on production and consumption side.		

RECAP OF COMMUNICATION GATEWAYS



MODEL	ECU-C	ECU-R	ECU-B
PART NUMBER	205018	209018.	211018
Communication with micro-inverters	Zigbee	Zigbee	Zigbee
Internet connection: Ethernet RJ45	✓	✓	✗
Internet connection: WiFi	✓	✓	✓
Built-in measurements with current sensors (TI) (photovoltaic production, household consumption, grid import/export)	✓	✗	✗
Grid zero injection check	✓	✗	✗
Relays: energy surplus use	✓	✗	✗
Commissioned with EMA Manager or the supervision portal	✓	✓	✓
Local interface	✓	✗	✗

COMMISSIONING

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- **2.** Download the EMA Manager app for free on AppStore or Google play.

This app acts as the ECU-B, ECU-R and ECU-C interface, enabling quick configuration and set-up of the installation, and facilitating the commissioning process.

Download on the App Store

GET IT ON Google play

Please use the mobile device's browser to scan the QR codes and download EMA Manager (using the AIRWELL EMA login):

IOS ANDROÏD

Once commissioning is complete, you need only download the AirHome app and register your installation by followingthe instructions.

IOS ANDROÏD

Air Home

INSTALLATION GUIDE

> **EMA supervision portal:**

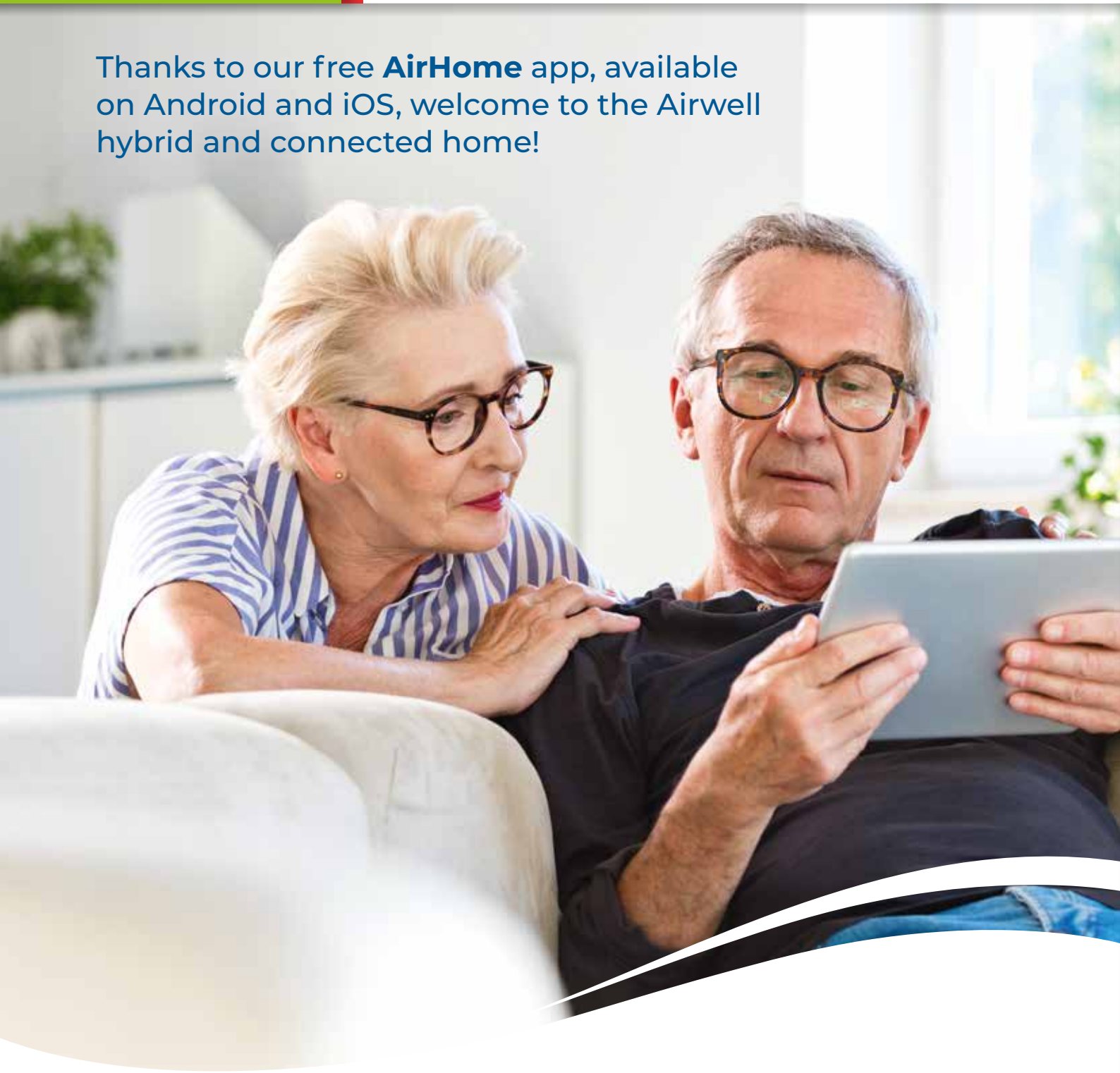
Click or flash

LIST OF SOLAR PRODUCTS

Reference	Part number	Picture	Prix (€)
PHOTOVOLTAIC SOLAR PANEL			
PVMX-375M-FB	2EN230004		Ask us
PVMX-410M-FB	2EN230005		
PVMX-500M-FB	2EN230006		
SWITCHBOX			
AC single-phase switchbox < 6kWp	2ACEL0002		Ask us
AC three-phase switchbox < 9kWp	2ACEL0007		
MICRO-INVERTER			
2-input micro-inverter DS3-L	2EN250001		Ask us
2-input micro-inverter DS3	2EN250002		
4-input three-phase micro-inverter QT2-EU	2EN250003		
COMMUNICATION GATEWAY			
ECU-R (production metering)	209018.		Ask us
ECU-B (production metering for 4 PV modules)	211018		
ECU-C (production & consumption metering)	205018		
80A transformer for ECU-C	18083020112		
200A transformer for ECU-C	18083020012		
WIRING			
Y3 AC bus (2 m)	2322304903		Ask us
Y3 AC bus (4 m)	2322404903		
Y3 standalone cable (1 m)	2334076132		
AC bus end cap	2060700017		
AC Bus Y-CONN Cap	2061702007		
Y unlock tool	2352000001		
DC extension cable	2310360214		
AC male connector	2300531032		
AC female connector	2300532032		
MC4 Male caps	2060401006		
MC4 Female caps	2060402006		
5C AC bus (2.4 m) for QT2	2322604802		
5C AC bus end cap	2062050005		
5C AC Bus Y-CONN Cap	2061252032		
25 A AC male connector for 5C AC bus	2300711032		
25 AC female connector pour 5C AC bus	2300812032		

AIRHOME

Thanks to our free **AirHome** app, available on Android and iOS, welcome to the Airwell hybrid and connected home!



CONTROL OF YOUR HOME
at your fingertips

A single app to control your entire home!

Connecting to the AirHome app gives you optimal control of your HVAC equipment. An all-in-one app managing your air conditioning, heating, ventilation, domestic hot water and connected objects in the house, which makes your daily life easier (Plug&Play) while saving money.

CONTROL YOUR HOME

Program all the appliances in the house, set the ideal temperature at different times of day according to your routine, manage different scenarios – all through AirHome to ensure total comfort while saving energy.

CONTROL YOUR CONSUMPTION

Easily view the consumption of your devices according to your uses*.

CONNECTIVITY

Connect all your devices in a few clicks: your heat pump and other Airwell products, your compatible photovoltaic panels and other connected household equipment*.

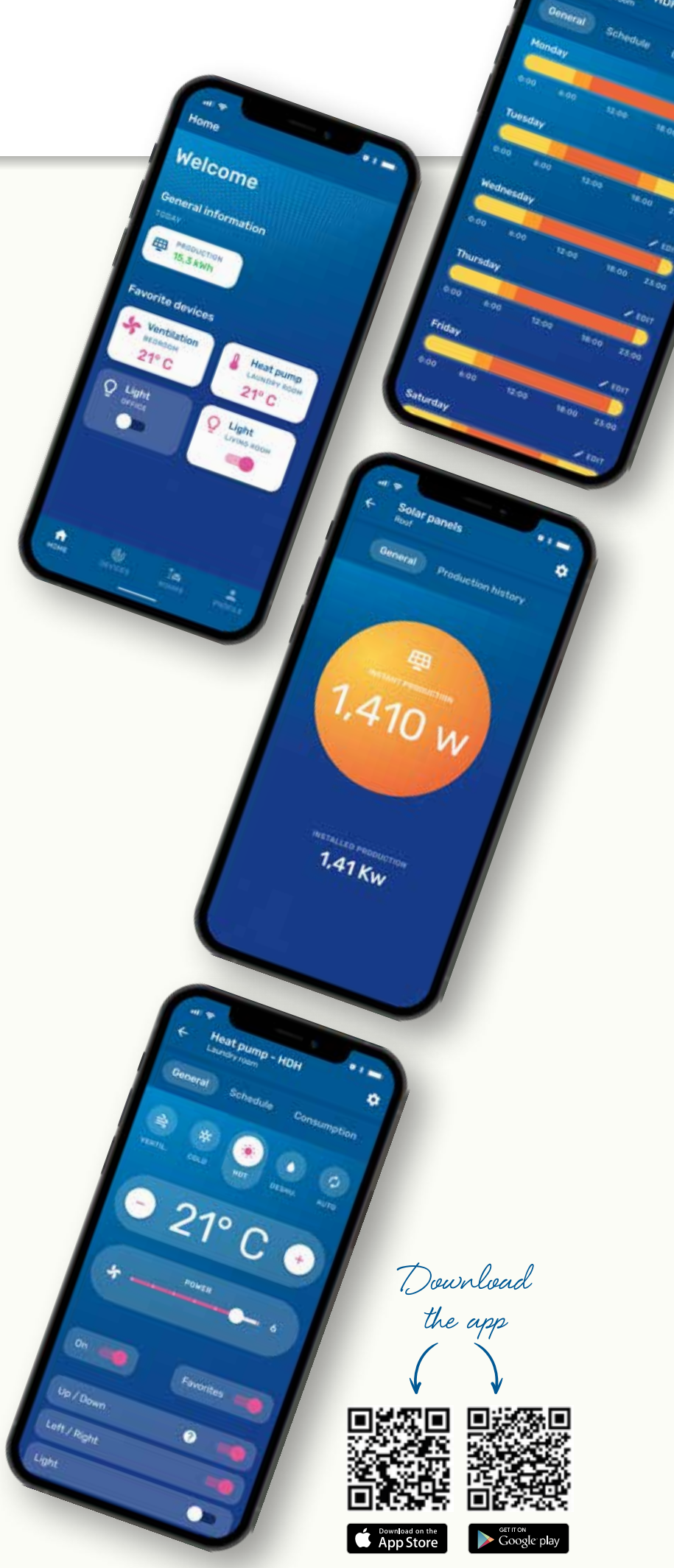
SOLAR ENERGY PRODUCTION

View a snapshot of your solar electricity production at any time, as well as the history.

ENERGY SAVING

Make big energy savings without having to think about it, our app's algorithm automatically optimizes the consumption of your devices by alternating solar and grid production*.

* Under development for 2023.



Download the app

Download on the App Store

GET IT ON Google play

> Find the **AIRHOME pairing help guide** in our document library.

AirSolar SOLUTIONS
AN AIRWELL GROUP BRAND

Photovoltaic system selection assistance sheet

INFORMATION SHEET	
Job reference:	Date:
Provisional work date:	

CUSTOMER	
Company:	Contact name:
Address:	
Postcode:	Town/city:
E-mail:	Phone:

INFORMATION ON THE INSTALLATION	
Address or geographic coordinates:	
Power supply: ❑ Single-phase ❑ Three-phase	
What type of subscription do you have? Personal residence: ❑ Single tariff ❑ Peak/Off-peak tariff Professional residence: ❑ Single tariff ❑ Peak/Off-peak tariff Company: ❑ Low voltage ❑ High voltage	What is the firm power indicated on your meter? _____ kVA Rate per kWh (please specify if not single tariff): €_____ Annual consumption: _____ kWh
Desired module: ❑ PVMX-375M-FB ❑ PVMX-500M-FB	Desired total maximum power of installation: _____ Wp

TERRAIN CATEGORY


❑ Terrain category 0 (sea)


❑ Terrain category II (open countryside, airport)


❑ Terrain category IIIa (countryside with hedgerows, woodland)


❑ Terrain category IIIb (dense woodland, industrial zone)


❑ Terrain category IV (urban)

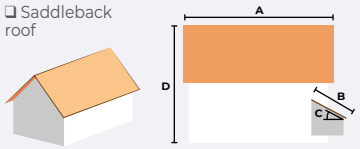
ANSWER TO THE PART BELOW ONLY IF YOU WANT THE FIXING SYSTEM

INFORMATION ON THE ROOF

Orientation: ❑ SOUTH ❑ SOUTH-WEST ❑ SOUTH-EAST ❑ EAST ❑ WEST

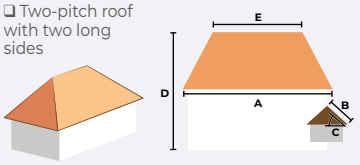
Select the roof type:

❑ Saddleback roof



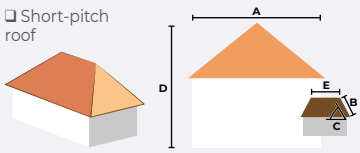
A: Roof length _____m
B: Roof segment width _____m
C: Slope _____°
D: Building height _____m

❑ Two-pitch roof with two long sides



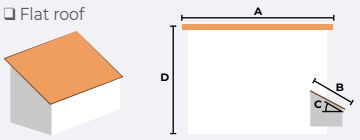
A: Roof length _____m
B: Roof segment width _____m
C: Slope _____°
D: Building height _____m
E: Ridge length _____m

❑ Short-pitch roof



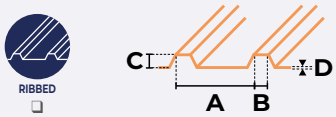
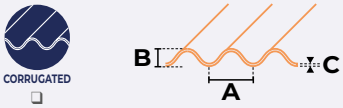
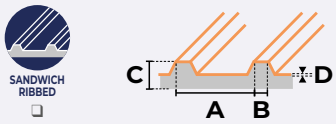
A: Roof length _____m
B: Roof segment width _____m
C: Slope _____°
D: Building height _____m
E: Ridge length _____m

❑ Flat roof



A: Roof length _____m
B: Roof segment width _____m
C: Slope _____°
D: Building height _____m
Parapet height _____m
Parapet width _____m
Rotation _____m
Ground type _____

COMMENTS / SKETCHES (ALL RELEVANT DETAILS, OBSTACLES, SHADE, ETC.)

INFORMATION SHEET	
COVER TYPE	
Bearing structure type: ❑ Rafters ❑ Purlins	Bearing structure material:
Bearing structure spacing _____ mm	First bearing structure at _____ mm
Bearing structure thickness _____ mm	
	
Spacing between battens _____ m	Batten height _____ mm
First batten at _____ m	Batten width _____ mm
	
A: Spacing between ribs _____ mm	First rib at _____ mm
B: Rib width _____ mm	C: Rib height _____ mm
Rib quality: Steel ≥ S320GD (otherwise specify _____)	D: Rib thickness _____ mm
	
A: Spacing between splines _____ mm	First spline at _____ mm
B: Spline height _____ mm	Rib quality: Steel ≥ S320GD (otherwise specify _____)
C: Spline thickness _____ mm	
	
A: Spacing between ribs _____ mm	First rib at _____ mm
B: Rib width _____ mm	C: Rib height _____ mm
Rib quality: Steel ≥ S320GD (otherwise specify _____)	D: Rib thickness _____ mm
	
A: Spacing between splines _____ mm	First spline at _____ mm
B: Spline height _____ mm	

DOCUMENTS TO BE SUPPLIED
❑ Your subscription contract/electricity bill
❑ Your load curve* (contact your energy supplier)
❑ Roof plan
❑ Photos

* Available on request from your energy supplier. Electronic document required to conduct the study properly. Without it, the calculation will be less precise.

GROUPE AIRWELL

General terms and conditions of sale

ARTICLE 1 - PURPOSE AND SCOPE

1.1. These general terms and conditions of sale apply to all sales of equipment and deliveries of services entered into by Groupe Airwell SA (hereinafter the "Vendor"), a public limited company (société anonyme) with a capital of 242,361.30 euros whose registered office is located at 10, rue du Fort de Saint Cyr, 78180 Montigny le Bretonneux, France, entered in the Versailles trade and companies register under number 824 596 795 from a professional buyer, understood as any natural or legal person, public or private, who acts for purposes within the framework of his commercial, industrial, craft, liberal or agricultural activity, including when they act in the name and on behalf of another professional. These general terms and conditions of sale are not applicable to a consumer or non-professional buyer.

1.2. "Equipment" refers to finished products, accessories, and spare parts.

1.3. Any order implies full and unconditional acceptance of these general terms and conditions of sale, which prevail over any other document of the buyer, particularly its general terms and conditions of purchase, unless otherwise expressly agreed beforehand by the Vendor.

1.4. If the Vendor does not invoke any one of the clauses of the general terms and conditions of sale at a given moment, this may not be interpreted as a waiver of its rights to invoke such clauses or these general terms and conditions of sale subsequently.

ARTICLE 2 - GENERAL INFORMATION: CATALOGUES, DOCUMENTATION

2.1. Because of the speed of the technological evolution and the evolution of standards or improvements regarding security in the field in question, any information, indication, or item of value transmitted on any medium, whether it comes from the manufacturer or the Vendor, is given for information purposes only. These parties reserve the right to make any modification to the equipment whose etchings, photographs, or drawings appear on such documents, at any time and without notice. No document provided by the Vendor is considered a contractual element, and the Vendor cannot be held liable for such documents.

2.2. Where the selection of the proposed equipment is done by the Vendor on the basis of information provided by the informed professional buyer, the buyer is always responsible for ensuring that the characteristics of the equipment proposed by the Vendor are actually suitable for its needs, with regard to both performance and the possibilities of implementation. In addition, if the buyer resorts to the collaboration of the Vendor's engineers or technicians for a study or project, the Vendor may not be held responsible, and the buyer undertakes to consult an expert in the field for, among other things, the selection and sizing of the equipment and its installation and commissioning.

2.3. The buyer must not modify the markings affixed on the equipment or packaging, add any other marking, or use the Vendor's markings, names, or trademarks in any way not expressly authorised.

ARTICLE 3 - ORDERS AND QUOTATIONS

3.1. Orders are firm. Once accepted, the order or quotation may only be modified or cancelled by the buyer with the Vender's prior express consent. The buyer shall be liable for any order cancellation, even partial, and the Vendor shall be entitled to compensation in the form of a penalty set in the amount of the cancelled order, without prejudice to all other damages.

3.2. Any acceptance of an order or quotation must be written. Sales are final only after the express acceptance materialized by the Vendor's issue of an acknowledgement of receipt of the buyer's order. The Vendor reserves the right to accept or reject any order within a maximum of five business days from its receipt.

3.3. The buyer must check the acknowledgement of receipt of the order and report any error or omission to the Vendor within a maximum period of 48 hours from its receipt. Beyond this period, the order becomes final for the buyer. If a buyer places an order with the Vendor, without having paid for its previous order(s), the Vendor may refuse to honor the order and deliver the equipment in question, without the buyer being able to claim any compensation for any reason whatsoever.

3.4. The Vendor reserves the right, even after partial fulfilment of an order, to require guarantees or to cancel the order(s) or balances of orders in progress in the name of the buyer, without any compensation any kind, in the following cases: deterioration of the buyer's credit, failure to file documents and instruments with the registry of the commercial court, downgrading of the buyer's rating by the Vendor's credit department, refusal of a credit insurer or a factor to cover the amount of the sale, change or modification in the financial or legal capacity of the buyer, registrations or liens on the buyer's business or in general, in case of a change in the buyer's situation.

ARTICLE 4 - DELIVERY AND TRANSPORT

4.1. Unless there are provisions or an agreement to the contrary, the transport/delivery costs are borne by the purchaser. The reference incoterms are FCA vendor's warehouse or FOB port of shipment from the manufacturing plants.

4.2. The delivery lead times are given for information purposes only. In no case may exceeding the lead times justify the cancellation of the order or the awarding of damages. However, if the equipment still has not been delivered two months after a formal notice has remained unsuccessful, for any other cause other than force majeure (as defined in article 6.2), the order may then be cancelled at the request of either party; the buyer may obtain a refund of its advance payment to the exclusion of any other compensation or damages.

4.3. In accordance with Article 133-3 of the French commercial code, any delivered equipment that was not the subject of reservations by registered letter with acknowledgement of receipt within three days following the date of such receipt (not including holidays) to the transporter, a copy of which shall be simultaneously sent to the Vendor, shall be considered accepted by the buyer.

ARTICLE 5 - RECEIPT AND RETURN OF EQUIPMENT

5.1. Complaints about apparent defects or the non-conformity of the delivered equipment must be expressed in detail on the delivery slip and by registered letter with acknowledgement of receipt and sent to the Vendor's registered office within 72 hours following the delivery. Beyond this period, the received equipment shall be considered conforming to the order. It shall be up to the buyer to provide, with its complaint, any justification as to the reality of the noted defects or anomalies. The buyer shall give the Vendor every opportunity to investigate such defects and find a solution.

5.2. In any case, the buyer may not return the equipment without authorization from the Vendor. The Vendor shall be responsible for the costs and risks of the return solely in the event that an apparent defect or missing items are actually noted by it or its representative. If a claim proves justified, the return shall be the subject of an exchange or a credit memo, at the Vendor's choice, without the ability to demand any compensation or damages in any capacity whatsoever. Any return of equipment previously accepted due to the buyer, including but not limited to an order error or incorrect information communicated for a calculation or an order made by the buyer, will result in a discount to be defined according to the condition and/or antiquated or possible obsolescence of the returned product. The buyer shall be responsible for the return transport.

ARTICLE 6 - PRICE - TARIFFS - PRICE REDUCTIONS

6.1. Unless there are provisions or an agreement to the contrary, prices are set in euros net of tax and FCA vendor's warehouse for sales from the seller's stock, or FOB port of shipment from the manufacturing plants. For sales from manufacturing plants, a handling/freight/stuffing fee of 470 euros per container (regardless of container type) will be charged.

6.2. Equipment is sold on the basis of the Vendor's tariffs in force as at the date when each order is placed, or as at the date of issue of each quotation, subject to a delivery occurring no later than the end of the second calendar month following that date. Beyond that period, any price change before delivery shall be automatically applicable.

6.3. No discount shall be applied by the Vendor for cash payment or for payment earlier than the period indicated in these general terms and conditions of sale or on the invoice issued by the Vendor.

6.4. Unless otherwise agreed, the Vendor may grant the buyer dis-

counts on the prices in force, including in the form of premiums, at the time when the order is placed, depending on the turnover excluding taxes generated annually or over a given period, and/or the quantity/nature of the purchased finished products and/or services possibly rendered by the buyer. These discounts may be fixed and/or gradual and may vary according to the categories of buyers.
6.5. If one of the criteria for application of these price reductions or any one of the clauses of these terms and conditions of sale is not met, the elimination of the benefit of such price reductions shall be immediately retroactive over the entire year in question. Consequently, if price reductions have already been applied by the Vendor during the year in question, they must be returned by the buyer on simple request.

ARTICLE 7 - PAYMENT TERMS

7.1. For any company based outside France, invoices shall be payable according to the payment period negotiated and agreed by the Vendor. For all French companies, invoices are payable within a maximum period of 45 days, end of month, or 60 days from the invoice issue date. For summarised invoices issued at the end of the month, the period must not exceed 45 days from the invoice issue date (article L. 441-6 of the Code of Commerce).
7.2. The Vendor reserves the right to require one or more advance payments when the order is placed and/or before shipment. Any commercial paper (bill of exchange or promissory note) presented for acceptance must be returned within eight clear days of its receipt by the buyer.
7.3. In accordance with Articles L. 441-3, L. 441-6, and D. 441-5 of the French commercial code, any payment delay automatically results in, in addition to late payment penalties at a rate equal to three times the statutory interest rate (i.e., 0.77% in the second half of 2022 updated each half-year period by the Minister of the Economy, with the understanding that this rate shall apply to the amount of the invoice including all taxes), an obligation for the debtor to pay 40 euros in recovery charges if the invoice has not been settled on the day following the payment date appearing on the invoice. In addition, in case of a late payment or a partial payment, (i) the Vendor may suspend all current and/or future orders; (ii) 48 hours after a formal notice has remained unsuccessful, the sale shall be automatically terminated, if so desired by the Vendor, which may bring action for summary proceedings for the return of the equipment, without prejudice to any other action and/or damages. The buyer must reimburse all costs caused by the non-payment (including return costs on unpaid debts) and the recovery of sums due, including fees of ministerial officers and/or recovery companies.
7.4. In no case may payments be suspended or offset without the Vendor's prior written approval. Any partial payment shall first be applied to the non-preferential part of the debt, then on the amounts with the earliest due date.

ARTICLE 8 - RETENTION OF TITLE AND TRANSFER OF RISKS

8.1. The transfer of ownership of the equipment is subject to the full payment of the price by the buyer. The buyer undertakes to maintain the equipment in good condition and insure it against all rights, for which the buyer shall be fully responsible in all cases, as from their delivery. In order to permit any action for recovery by the Vendor, the buyer must ensure that the equipment can be individually identified.
8.2. The Vendor may recover its equipment regardless of whose possession it is in, in case of non-payment of the price by the buyer or insolvency concerning it, even when such equipment has been handed over to a third party. If the equipment resold, the buyer must notify the new buyer of the existence of the retention of title clause.

ARTICLE 9 - LOCAL STANDARDS AND COMPLIANCE

9.1. As concerns European countries subject to the FGAS EU517/2014 regulation, the importer of the products bears sole liability to the European authorities for the declaration of the FGAS quotas. Therefore, for orders from Airwell's central stock located in France, the FGAS quotas are declared by Airwell; no further action is to be taken by Airwell customers. For drop-shipped orders, imported directly from plants outside of Europe, the Airwell customer importing this order bears sole liability for the declaration of the FGAS quotas to the relevant authorities. The latter must complete the declaration paperwork in its own country. Airwell may, at the customer's request, sell and transfer FGAS quotas but Airwell shall not be held liable under any circumstances for a failure to declare quotas or any error in the quantities declared. The importing customer bears sole liability for the declaration of FGAS quotas.
9.2. Any entry of goods into the European Union or a third country is the sole responsibility of the importer. In this sense, the buyer is solely responsible for ensuring the conformity of the products he imports. Airwell cannot be held responsible if the products do not conform to the local standards when they enter the "destination" territory (release for consumption). The buyer must provide in advance all the documents necessary for the conformity of the imported products on the territory of "destination" (release for consumption). Airwell strongly recommends a pre-departure inspection of the goods, at the customer's (buyer's) expense, to ensure the conformity of the imported goods. After research and analysis, Airwell reserves the right to refuse the order or to modify the pricing.

ARTICLE 10 - ASSIGNMENT OF JURISDICTION - APPLICABLE LAW

These general terms and conditions of sale are subject to French law. Any dispute shall be under the exclusive jurisdiction of the VERSAILLES COMMERCIAL COURT, even in case of interim proceedings, incidental claims, or multiple defendants or introduction of third parties.

ARTICLE 11 - INTELLECTUAL PROPERTY

11.1. The buyer is authorized, on a precarious basis, to use the brand, the commercial name, the sign, the graphic elements and other distinctive signs relating to the Vendor's equipment for the sole purpose of identifying and promoting them and in the exclusive interest of the Vendor. This right of use does not confer any ownership rights to the buyer. The buyer undertakes not to register and not to be the owner of trademarks, models, domain names, patents, signs, trade names, product references and other distinctive signs belonging to the Vendor (or of which it has the use) or which could lead to confusion with its own.
11.2. With regard to the Vendor's graphic elements, such as logos or photographs, the buyer undertakes to use and reproduce them only and reproduce them only in strict compliance with the quality of the image and the format of the original graphic elements. The buyer shall not modify them or use them in such a way as to degrade the brand image of the Vendor or those image of the Vendor or of his equipment.
11.3. The buyer's right to use the Vendor's trademarks, trade names or other distinctive signs shall cease immediately when the business relationship with the Vendor ceases for any reason whatsoever. The same applies to non-compliance by the buyer with the conditions of use described in this article may result in the termination of this right of use at any time by of use at any time by simple letter.

ARTICLE 12 - PROTECTION OF PERSONAL DATA

12.1. Any order for equipment implies the processing, by the Vendor, of personal data within the meaning of European Regulation 2016/679 of 27 April 2016 and Law No. 78-17 of 6 January 1978 relating to data processing, files and freedoms in its current version (hereinafter collectively the "Applicable Laws"), which relate to the buyer and/or the natural person, representative of the buyer, who places the order in the name and on behalf of the buyer.
12.2. The Vendor declares that it complies with the Applicable Laws and, in particular, implements the principles of personal data protection, notably the principles of lawfulness, proportionality, transparency and data minimization as set forth in the Applicable Laws.
12.3. The manner in which such data is collected and processed by the Vendor, as well as a description of the buyer's rights with respect to such data, are set out in the privacy policy adopted by the Vendor and available on its website at the URL https://www.airwell.com/en/privacy-policy/.
12.4. The Vendor's privacy policy is an integral part of these terms and conditions of sale.

THESE GENERAL TERMS AND CONDITIONS MAY BE SENT TO YOU IMMEDIATELY IN BOLD CHARACTERS ON SIMPLE REQUEST. AS THESE TERMS AND CONDITIONS ARE ESSENTIAL TO THE VENDOR'S COMMITMENT, WE INVITE YOU TO CONTACT US IF THEIR READABILITY IS NOT SUITABLE FOR YOU.

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