



The better 1phase PowerUNO

The better flexibility

Battery ready inverter, DC or AC coupled
Backup power up to 6 kW

The better security

Patented AFCI
Patented RCD (Residual Current Device)

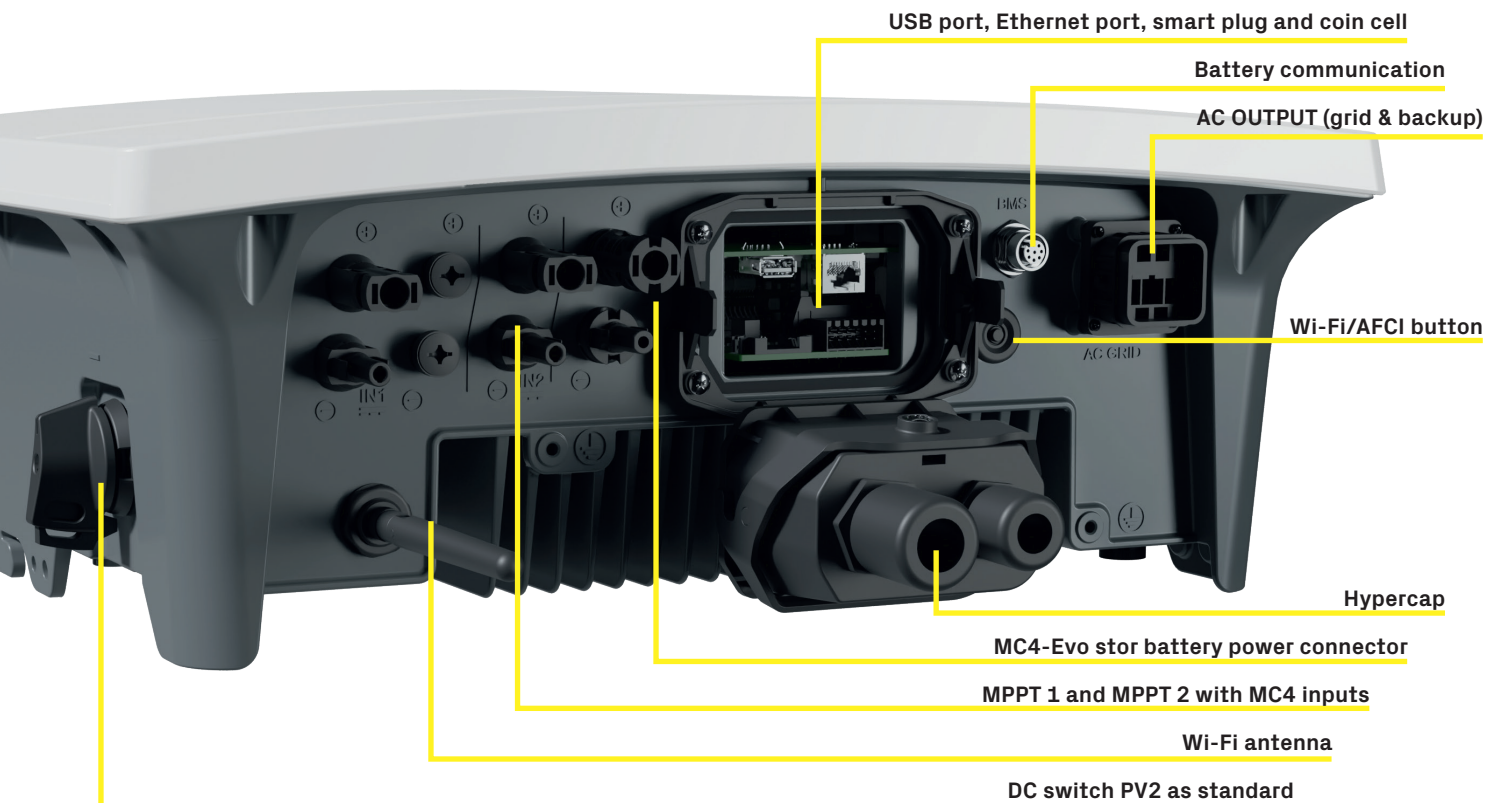
The better installability

Plug & play connections
Integrated spirit level

The better connectivity

Embedded Wi-Fi, Ethernet and USB
Modbus TCP (Sunspec)

Go for the better



One size for all

from 2 kW to 6 kW

x2 faster

switching frequency

<20 dB (A)

noise reduction

+40%

time saving
for commissioning



24 / 7

real time monitoring

Battery

ready

100%



No tools

for commissioning

<2 s

backup transition

Patented

ARC fault detection

Small

High power density

+55%

CPU performance

Integrated

SG ready

Built-in

Ethernet and Wi-Fi

Setup

anytime

Technical data and types								
Inverter	FIM-HY-2.0-SE-A	FIM-HY-3.0-SE-A	FIM-HY-3.3-SE-A	FIM-HY-3.6-SE-A	FIM-HY-4.0-SE-A	FIM-HY-4.6-SE-A	FIM-HY-5.0-SE-A	FIM-HY-6.0-SE-A
Embedded communication								
Embedded physical interface	Wi-Fi ¹⁰⁾ , Ethernet, RS-485							
Embedded communication protocols	Modbus TCP (SunSpec)							
Datalogger data retention	30 days							
Remote monitoring	Energy Viewer (mobile APP), Energy Viewer Web, Plant Portfolio Manager							
Local monitoring	Energy Viewer (mobile APP) / Internal web server (Web UI)							
Commissioning (Energy policy included)	Internal web server (Web UI)							
Environmental								
Ambient temperature range	-25...+60°C with derating above 50°C	-25...+60°C with derating above 50°C	-25...+60°C with derating above 50°C	-25...+60°C with derating above 45°C	-25...+60°C with derating above 50°C	-25...+60°C with derating above 50°C	-25...+60°C with derating above 45°C	-25...+60°C with derating above 40°C
Wet locations	Yes							
Relative humidity	4...100 % condensing							
Acoustic noise emission level (at rated DC voltage V _{dcr})	< 40 dBA @ 1 m							
Acoustic noise emission level (worst case)	< 50 dbA @ 1 m							
Maximum operating altitude	3000 m (9842 ft) with derating above 2000 m (6561 ft)							
Ambient storage/transport temperature	-40 °C...+85 °C							
Humidity storage/transport	4 % ÷ 100 %							
Environmental classification	4K6 (IEC 62477-1:2022) /4K26 (IEC 60721-3-4:2019)							
Physical								
Environmental protection rating	IP65							
Cooling	Natural							
Dimension (H x W x D)	330 mm x 470 mm x 182 mm							
Weight	14.5 kg							
Mounting system	Wall bracket							
Safety								
Isolation level	Transformerless							
Overvoltage category according to IEC 62109-1	OVC III (AC port), OVCI (PV port and Battery port)							
Protective class	I							
Marking	CE, RCM							
Safety and EMC standards	IEC/EN 62109-1, IEC/EN 62109-2, IEC 62477-1, EN 61000-6-2, EN 61000-6-3, EN 61000-3-2, EN 61000-3-3, EN 61000-3-11, EN 61000-3-12							
Grid standards (check your sales channel for availability) ¹¹⁾	CEI 0-21, DIN V VDE V 0126-1-1, VDE-AR-N 4105, G83/2, G59/3, G98-1, G99-1, RD 413, ITC-BT-40, AS/NZS 4777.2, C10/11, IEC 61727, IEC 62116							
Other features								
Load manager	Yes, with integrated relay							
AC backup, off grid	Yes							
Battery charge from AC	Yes, it can be enabled							
AC-coupled mode	Yes, setttable during commissioning							

1)

Value subject to derating; refer to the product documentation for further details.

2)

Extra power available in conjunction with Battery ESS.

3)

Refer to the document "String inverter – Product Manual appendix" available at www.fimer.com/solarinverters to know the brand and the model of the quick fit connector.

4)

The maximum operating current applies to both the charging and discharging cases.

5)

Also limited by the capability of the installed Battery ESS.

6)

The AC voltage range may vary depending on specific country grid standards.

7)

The Frequency range may vary depending on specific country grid standards.

8)

As per test defined in EN/IEC 61643-11.

9)

PowerBOX required.

10)

As per IEEE 802.11 b/g/n standard.

11)

Further grid standards will be added, please refer to FIMER's Solar page for further details.

12)

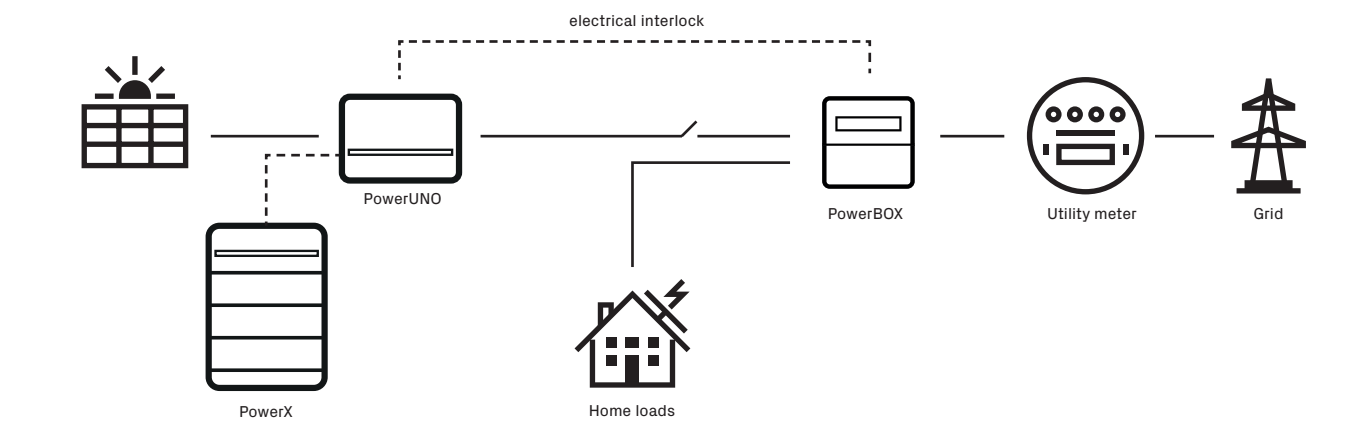
The multiple mode / backup mode and off-grid functions are not yet available to be installed in Australia.

Remarks:

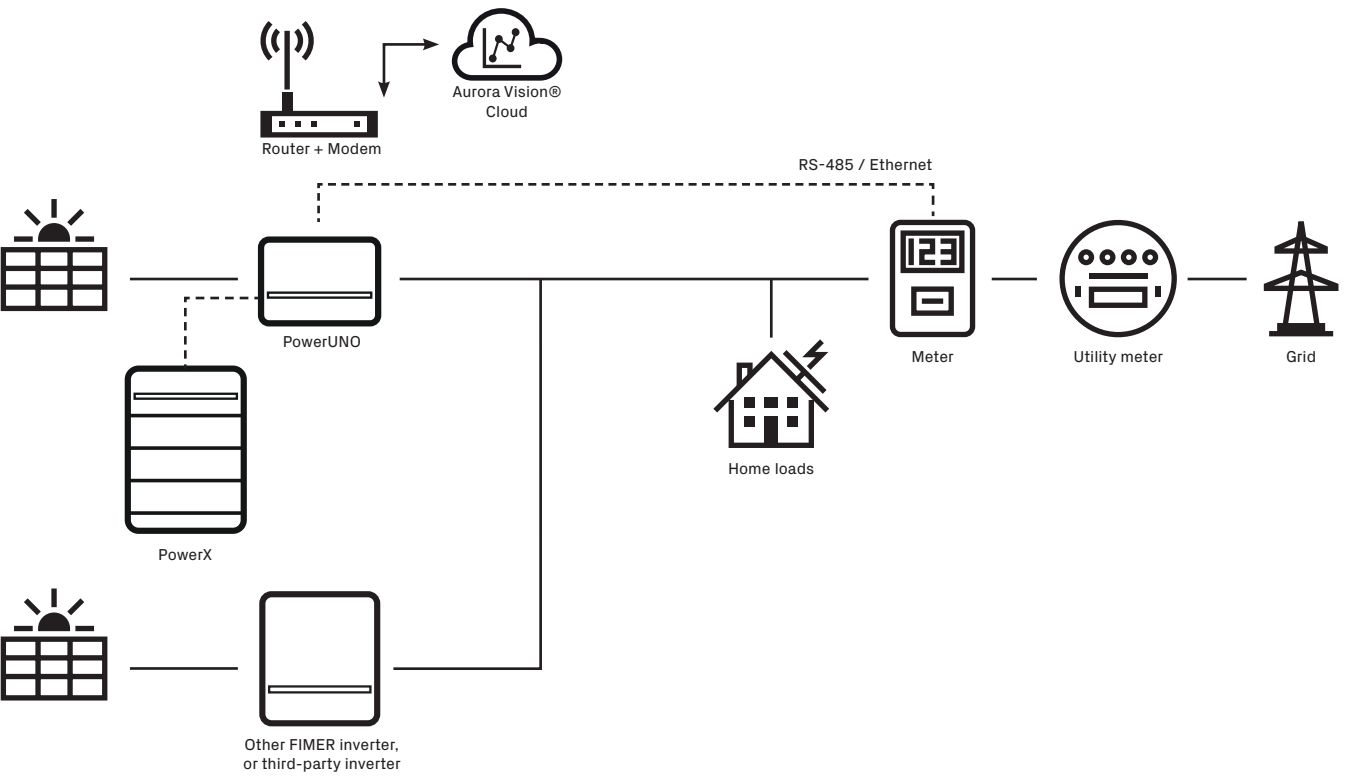
• Designed and manufactured in Italy

• Features not specifically listed in the present data sheet are not included in the product

PowerUNO: provides protection against blackouts



PowerUNO: Multi-inverter installation





For more information
please contact
your local FIMER
representative or visit:

fimer.com

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. FIMER does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of FIMER. Copyright© 2025 FIMER. All rights reserved.

