



The UNO

UNO-DM-PLUS-Q

The UNO-DM-TL-PLUS-Q is a premium European single-phase inverter with power ratings up to 6.0 kW that offers quality and value to the homeowner.

One size fits all

The design wraps FIMER's quality and engineering into a lightweight and compact package thanks to technological choices optimised for installations with different orientations.

All power ratings share the same overall volume, allowing higher performance in a minimum space, and are available with both single (2 kW model) and dual (from 3.3 to 6.0 kW models) Maximum Power Point Trackers.

Premium European quality

FIMER's string inverters and electric vehicle chargers are designed, developed and manufactured in Italy to ensure a premium product. Choose FIMER for a quality product that is designed and built with data security in mind using ethical sourcing of materials and labour.

Best in class warranty

FIMER's UNO-DM-PLUS-Q inverters have a FULL 10-year replacement warranty as standard, no need to register your system. FIMER is the only European inverter that offers this. If anything happens during this time, you will have no out of pocket costs for the repair or replacement of your inverter.

If the system is installed by a FIMER certified installer and they register your system, you get an extra 2 years warranty for a total of 12 years!

FIMER PowerGain Enabled

Ensure optimal performance, even in partial shading conditions. FIMER PowerGain enables similar performance as optimisers or micro-inverters but without additional components or extra costs - plus with increased safety!

Smart capabilities

The UNO-DM comes included with wi-fi to connect to your home network. Add the optional communication accessories to enjoy all the benefits of consumption monitoring and export limitation (UNO-COMM-Kit & Smart Energy Meter).

Energy Viewer

This free monitoring tool allows homeowners to remotely monitor the performance of their solar system and provides information necessary to increase energy self-reliance and self-sufficiency.

Easy to install, fast to commission

The presence of plug and play connectors, both on the DC and AC side, as well as wireless communication and an improved user interface for installers, enable a simple, fast and safe installation and commissioning process.

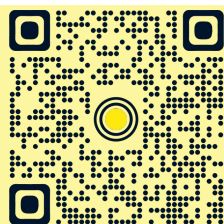
Why select FIMER's UNO-DM for the home

- Up to a full 12-year replacement warranty
- Designed and manufactured in Italy
- Wi-fi enabled
- Lifetime free of charge access to Aurora Vision/Energy Viewer
- Built-in DC Isolator (except 2.0kW model)
- FIMER's PowerGain Technology is enabled
- Remote firmware upgrade for inverter and components
- Export limiting and consumption monitoring is possible with optional UNO-COMM-Kit and Smart Energy Meter.



Technical data and types

Type code	UNO-DM-3.3-TL-PLUS-Q	UNO-DM-4.6-TL-PLUS-Q	UNO-DM-5.0-TL-PLUS-Q	UNO-DM-6.0-TL-PLUS-Q
Input side				
Absolute max. DC input voltage ($V_{max,abs}$)	600 V			
Start-up DC input voltage (V_{start})	200 V (adj. 120...350 V)			
Rated DC input voltage (V_{dci})	360 V			
Rated DC input power (P_{dci})	3500 W	4750 W	5150 W	6200 W
Number of independent MPPT	2			
Max. DC input power for each MPPT ($P_{MPPTmax}$)	2000 W	3000 W	3500 W	4000W (MPPT1), 3500W (MPPT2)
Maximum input short circuit current for each MPPT	20.0 A	20.0 A	22.0 A	25 A
Number of DC input pairs for each MPPT	1			2 on channel 1, 1 on channel 2
DC connection type	Quick Fit PV Connector			
Input protection				
Reverse polarity protection	Yes, from limited current source			
Input over voltage protection for each MPPT-varistor	Yes			
DC switch rating for each MPPT (version with DC switch)	25 A / 600 V			
Output side				
AC grid connection type	Single-phase			
Rated AC power ($P_{ac} @ \cos\phi=1$)	3300 W	4600 W	5000 W	6000 W
Maximum apparent power (S_{max})	3300 VA	4600 VA	5000 VA	6650 VA
Maximum AC output current ($I_{ac,max}$)	14.5 A	20.0 A	22.0 A	30.0 A
AC connection type	Female connector from panel			Terminal Block
Output protection				
Anti-islanding protection	According to local standard			
Maximum external AC overcurrent protection	20.0 A	25.0 A	32.0 A	40.0 A
Operating performance				
Maximum efficiency (η_{max})	97.0%	97.0%	97.4%	97.4%
Weighted efficiency (EURO/CEC)	96.5% / -	96.5% / -	97.0% / -	97.0% / -
Feed in power threshold	8 W			
Night consumption	<0.4 W			
Embedded communication				
Embedded communication interface	Wireless			
Embedded communication protocol	ModBus TCP (SunSpec)			
Commissioning tool	Web User Interface, Aurora Manager Lite			
Monitoring	Plant Portfolio Manager, Energy Viewer			
Optional board UNO-DM-COM kit	RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay, Remote ON/OFF			
Optional board UNO-DM-PLUS Ethernet COM kit	Ethernet, RS485 (use with meter for dynamic feed-in control), Alarm/Load manager relay, Remote ON/OFF			
Environmental				
Ambient temperature range	-25...+60°C with derating above 50°C		-25...+60°C with derating above 45°C	
Relative humidity	0...100 % condensing			
Acoustic noise emission level	50 dBA @ 1 m			
Physical				
Environmental protection rating	IP 65			
Cooling	Natural			
Dimension (H x W x D)	553 x 418 x 175 mm			418 x 553 x 180 mm
Weight	15 kg			20.5 kg
Mounting system	Wall bracket			
Isolation level	Transformerless			



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Please refer to the latest FIMER datasheet and product manual available at www.fimer.com for all specifications of the inverters listed or for other sizes of the UNO-DM-PLUS-Q. FIMER reserves the right to make changes or modify the contents of this document without prior notice. Copyright© 2022 FIMER. All rights reserved.

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