



Solar Inverter PowerTRIO

FIM-HY-4.0/5.0/6.0/7.5/8.0/8.5/10.0-SE-A-3PH

Quick Installation Guide



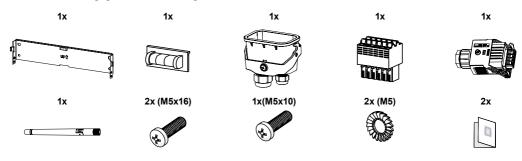
EN: Operative manual

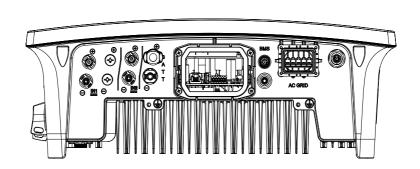
APPLY HERE
THE COMMUNICATION
IDENTIFICATION LABEL

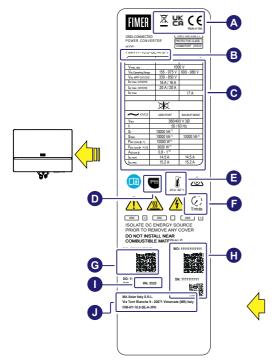
In addition to what is explained in this quick installation guide, the safety and installation information provided in the product manual must be read and followed. The technical documentation for the product is available at the website.

The device must be used in the manner described in the manual. If this is not the case the safety devices guaranteed by the inverter might be ineffective.

List of supplied components



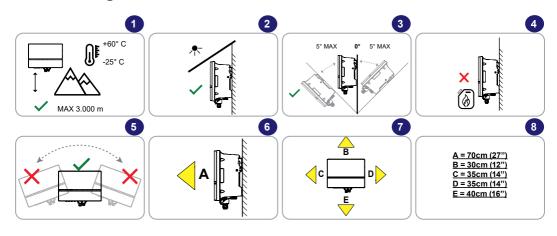




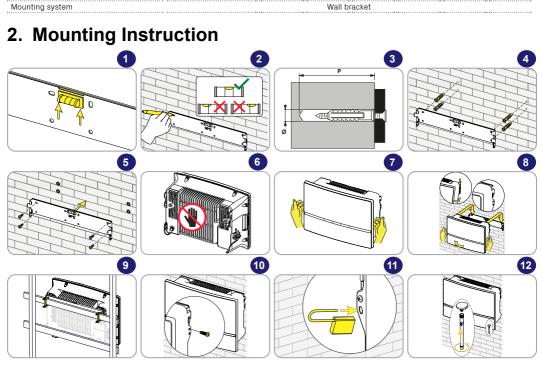
Α	Certification marks
В.	Inverter model
С	Main technical data
 D	Degrees of protection provided by enclosures (IP Code)
<u></u>	
.	
	Inverter Part Number
	Serial Number (YYWWSSSSS)
н	- Inverter access point SSID: FIMER-YYWWSSSSSS
	- "Host Name": http://FIMER-YYWWSSSSSS.local
	- It is required to register the inverter in Aurora Vision.
!	Production date: WWYY where: WW (week) YY (year)
J	Manufacturer
	WLAN (Wi-Fi) and ETH1 (Ethernet)
L	MAC addresses
М	Inverter Serial Number (YYWWSSSSSS)
N	Product Key
	QR Code:
O	To be used to commission inverter using FIMER internal WebUI
•••••	
	WLAN MAC: XX:XX:XX:XX:XX:XX
	ETH1 MAC: XX:XX:XX:XX:XX
	ETH1 MAC: XX:XX:XX:XX:XX
	Index N
	Remove and apply on the Quick

1. Mounting location

Environmental



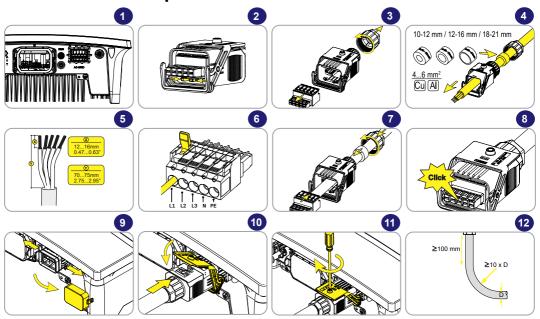
Ambient temperature range	-25+60°C		
Relative humidity	4100 % condensing		
Acoustic noise emission level	< 40 dBA @ 1 m		
Acoustic noise emission level (worst case)	< 50 dBA @ 1 m		
Maximum operating altitude	3000 m (9842 ft) with derating above 2000 m (6561 ft)		
Physical			
Environmental protection rating	IP65		
Cooling	Natural		
Dimension (HxWxD)	373 mm x 518 mm x 183 mm		
Weight	18 kg		



3. Protective earthing (PE)



4. Line cable and protection device

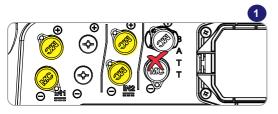


Load protection breaker			
Туре	Automatic circuit breaker with thermal magnetic protection		
Voltage/Current raiting	FIM-HY-4.0 - 400Vac min. 10A FIM-HY-5.0 - 400Vac min. 10A FIM-HY-6.0 - 400Vac min. 10A FIM-HY-7.5 - 400Vac min. 16A FIM-HY-8.0 - 400Vac min. 16A FIM-HY-8.5 - 400Vac min. 16A FIM-HY-10.0 - 400Vac min. 20A		
Magnetic protection characteristic	Magnetic curve B/C		
Number of poles	3W (3 phases without neutral wire) 4W (3 phases with neutral wire)		

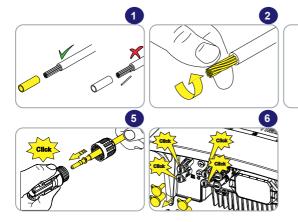
Residual current protection device requirements	All PowerTRIO models			
Туре	A / AC			
Sensitivity	300mA			

Inverter model	Line conductor maximum length (m)				
inverter model	4mm ²	6mm ²			
FIM-HY-4.0	63	94			
FIM-HY-5.0	50	76			
FIM-HY-6.0	42	63			
FIM-HY-7.5	34	50			
FIM-HY-8.0	31	47			
FIM-HY-8.5	30	44			
FIM-HY-10.0	25	38			

5. DC inputs

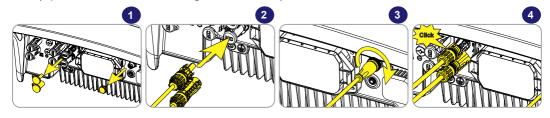


	IN1	IN2
FIM-HY-4.0-SE-A-3PH	16 A	-
FIM-HY-5.0 to 10.0-SE-A-3PH	16 A	16 A

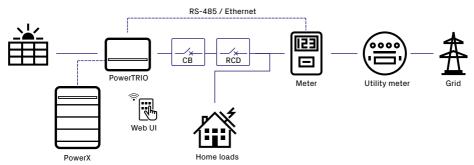


6. Battery PowerX connection

(optional PowerX wiring kit needed)

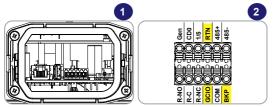


7. AC On-Grid connection

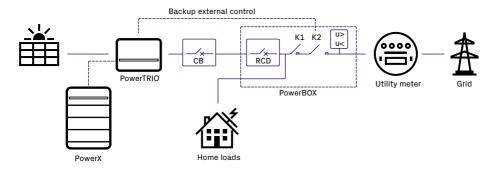


8. AC On-Grid connection with backup functionality

(optional PowerBox needed)

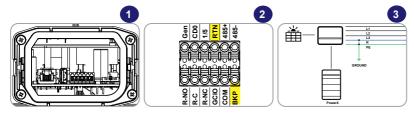


Terminal	Description
BKP GCIO (+12V)	Backup mode inhibition Grid Connection Inhibition Output (+12V)
RTN	Common return path



9. Off-Grid Stand Alone

(PowerBox not needed)



Terminal	Description
BKP	Backup mode inhibition
RTN	Common return path

INOTE - Shorting BKP and RTN produces the stand-alone voltage.

10. Wi-Fi / AFCI button



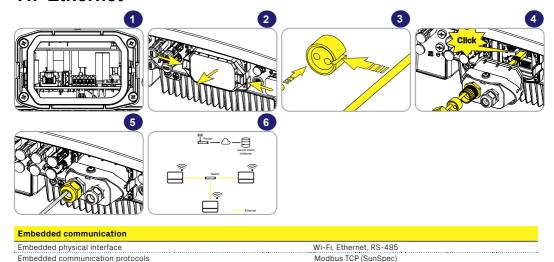
11. Ethernet

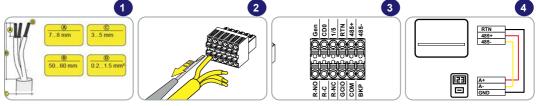
Datalogger data retention

Commissioning (Energy policy included)

Remote monitoring

Local monitoring

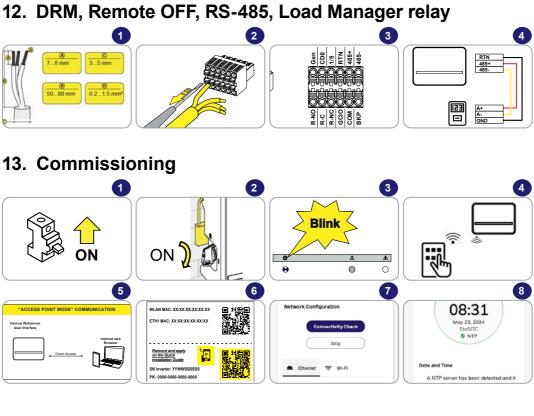




30 days

Energy Viewer (mobile APP), Energy Viewer Web, Plant Portfolio Manager Energy Viewer (mobile APP) / Internal web server (Web UI)

Internal web server (Web UI)



14. Characteristics and technical data

Inverter	FIM-HY-4.0	FIM-HY-5.0	FIM-HY-6.0	FIM-HY-7.5	FIM-HY-8.0	FIM-HY-8.5	FIM-HY-10.0
DC Input (PV)							
Absolute maximum DC voltage (V _{max,abs})				1000 V			
Start-up DC voltage (Vstart)	200 V	200 V	200 V	215 V	215 V	215 V	215 V
Rated DC voltage (Vdcr)				625 V			
Rated DC power (Pdcr)	4128 W	5176 W	6205 W	7732 W	8247 W	8763 W	10256 W
Suggested maximum DC power 1)	6000 W	7500 W	9000 W	11250 W	12000 W	12750 W	12750 W
Number of independent MPPT	1	2	2	2	2	2	2
Max DC power for each MPPT 2) (PMPPTmax)	5625 W	3882 W	4654 W	5799 W	6186 W	6572 W	6572 W
DC voltage range of MPPT (VMPPTmin VMPPTmax) at Pacr	265800V	170800 V	200800 V	250850 V	265850 V	285850 V	330850 V
Max DC current (Idc max)	16 A	16 A 32 A /16 A - 16 A					
MPPT (IMPPT max)	MPPT1	MPPT1 MPPT2					
Max short circuit current per MPPT				20 A			
DC connection type	Quick fit PV connector 3)						
Battery DC input/output							
Max operating current 4)			,	17 A	,		
Maximum charge power 5)	5625 W	7764 W	9308 W	10256 W	10256 W	10256 W	10256 W
Maximum discharge power	4000 W	5000 W	6000 W	7500 W	8000 W	8500 W	10000 W
Grid connected output side						•	
AC Grid connection type				Three-phase			
Rated AC power (Pacr @cosφ=1)	4000 W	5000 W	6000 W	7500 W	8000 W	8500 W	10000 W
Rated AC grid voltage (Vac.r)	.*	***************************************	•	380 / 400 V	•••••	•••••	
AC voltage range ⁶⁾ 320480 V				•			
Rated Output Current at Vac 230V (Iac,r)	5.8 A	7.2 A	8.7 A	10.9 A	11.6 A	12.3 A	14.5 A
Maximum AC current (Iac max)	6.1 A	7.6 A	9.1 A	11.4 A	12.2 A	12.9 A	15.2 A
Rated frequency (fr)	•	• • • • • • • • • • • • • • • • • • • •	•	50 Hz / 60 Hz		• • • • • • • • • • • • • • • • • • • •	

- 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

For complete data refer to the technical data sheet on www.fimer.com



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04.08.2025

For more information We reserve please contact your the content local MA Solar Italy regresentative or visit: prevail. MA

fimer.com

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