

MICROINVERTER

FM 300-1T1P-EU FM 500-1T1P-EU
FM 400-1T1P-EU FM 600-1T1P-EU

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Higher Efficiency

Higher DC-to-AC conversion rate and the ability to handle small fluctuations of energy output



Easy and Quick Installation

Light and handy volume, and well design to allow quick installation



Cost-Effective

Longer lifespan and eliminate the need for additional wiring to reduce installation costs



Real-Time Monitoring

Real-time monitoring and managing the performance of each solar panel to help troubleshoot remotely



Greater Safety

IP67 protection degree, rapid shutdown function, and safety protection relay integrated



Higher Reliability

The failure of one micro-inverter does not affect the entire system

MODEL	FM 300-1T1P-EU	FM 400-1T1P-EU	FM 500-1T1P-EU	FM 600-1T1P-EU
Input Data(DC)				
Recommended Input Power(W)	240 to 405+	320 to 540+	400 to 670+	480 to 805+
Maximum Input Voltage(V)	60	60	60	60
MPPT Voltage Range(V)	20-60	20-60	20-60	20-60
Start-up Voltage(V)	16	16	16	16
Maximum Input Current(A)	1 × 13	1 × 13	1 × 15	1 × 20
Maximum Short Circuit Current(A)	20	25	25	25
Number of MPPTs	1	1	1	1
Number of Inputs Per MPPT	1	1	1	1
Output Data(AC)				
Rated Output Power(VA)	300	400	500	600
Rated Output Current(A)	1.4	1.7	2.2	2.6
Nominal Voltage/Range(V)	230/180-275	230/180-275	230/180-275	230/180-275
Nominal Frequency/Range(Hz)	50/45- 55	50/45- 55	50/45- 55	50/45- 55
Power Factor	> 0.99 default 0.8 leading...0.8 lagging	> 0.99 default 0.8 leading...0.8 lagging	> 0.99 default 0.8 leading...0.8 lagging	> 0.99 default 0.8 leading...0.8 lagging
Total Harmonic Distortion	<3%	<3%	<3%	<3%
Maximum Units Per 10AWG Branch	10	10	10	10
Maximum Units Per 12AWG Branch	8	8	8	8
Efficiency				
CEC Peak Efficiency	96.7	96.7	96.7	96.7
Nominal MPPT Efficiency	99.8	99.8	99.8	99.8
Night Power Consumption(mW)	< 50	< 50	< 50	< 50
Mechanical Data				
Ambient Temperature Range(°C)	-40 to +65	-40 to +65	-40 to +65	-40 to +65
Dimensions(W*H*D mm)	185 × 165 × 29.4	185 × 165 × 29.4	185 × 165 × 29.4	185 × 165 × 29.4
Weight(Kg)	1.98	1.98	1.98	1.98
Enclosure Rating	IP67	IP67	IP67	IP67
Cooling	Natural Convection (no fans)	Natural Convection (no fans)	Natural Convection (no fans)	Natural Convection (no fans)
Features				
Communication	2.4 GHz WIFI	2.4 GHz WIFI	2.4 GHz WIFI	2.4 GHz WIFI
Type of Isolation	High frequency transformer, Electrical isolated	High frequency transformer, Electrical isolated	High frequency transformer, Electrical isolated	High frequency transformer, Electrical isolated
Monitoring	S-Miles Cloud3	S-Miles Cloud3	S-Miles Cloud3	S-Miles Cloud3
Compliance	VDE-AR-N 4105: 2018, EN 50549-1: 2019, VFR 2019, 62109-1/-2, IEC/EN 61000-6-1/-2/-3/-4, IEC/EN 61000-3-2/-3 IEC 62891 ABNT NBR 16149:2013 ABNT NBR 16150:2013 ABNT NBR IEC 62116: 2012 ORDINANCE No. 140, OF MARCH 21, 2022			

