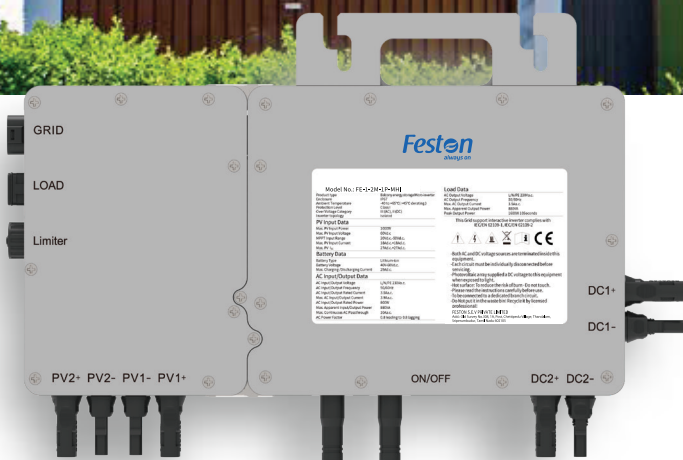


Micro Hybrid Inverter

FE-1.0-2M-1P-MHI

Feston
always on



- ✓ IP67 protection degree
- ✓ WIFI communication
- ✓ Wireless CT, Wireless Smart Switch and Wireless BMS communication
- ✓ AC couple to retrofit existing solar system
- ✓ Max. charging/discharging current 25A
- ✓ Expand two independent PV inputs
- ✓ Working in Microinverter mode or storage inverter mode
- ✓ Supports UPS load, fast switching within 4ms

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Technical Data

Model		FE-1.0-2M-1P-MHI
Battery Input Data		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range (V)	40-60	
Max. Charging Current (A)	25	
Max. Discharging Current (A)	25	
Charging Strategy for Li-ion Battery	Self-adaption to BMS	
Number of Battery Input	1	
PV String Input Data		
Max. PV Access Power (W)	2200	
Max. PV Input Power (W)	1600	
Max. PV Input Voltage (V)	60	
Start-up Voltage (V)	25	
MPPT Voltage Range (V)	20-55	
Rated PV Input Voltage (V)	42.5	
Max. Operating PV Input Current (A)	18+18	
Max. Input Short-Circuit Current (A)	27+27	
No. of MPP Trackers/ No. of Strings per MPP Tracker	2/1	
AC Input/Output Data		
Rated AC Input/Output Active Power(W)	1000	
Max. AC Input/Output Active Power(W)	1100	
Max. AC Input/Output Apparent Power(VA)	1100	
Rated AC Input/Output Current (A)	4.6/4.4	
Max. AC Input/Output Current(A)	5/4.8	
Max. Continuous AC Passthrough (grid to load) (A)	10	
Peak Power (off-grid) (W)	2 times of rated power, 10s	
Power Factor Adjustment Range	0.8 leading to 0.8 lagging	
Rated Input/Output Voltage/Range (V)	220/230 0.85Un-1.1Un	
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65	
Grid Connection Form	L+N+PE	
Total Current Harmonic Distortion THDi	<3% (of nominal power)	
DC Injection Current	<0.5% In	
Efficiency		
Max. Efficiency	96.5%	
Euro Efficiency	96.0%	
MPPT Efficiency	>99%	
Equipment Protection		
Integrated	DC Polarity Reverse Connection Protection, AC Output Overcurrent Protection AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection DC Terminal Insulation Impedance Monitoring, DC Component Monitoring, Ground Fault Current Monitoring Power Network Monitoring, Island Protection Monitoring, Earth Fault Detection Overvoltage Load Drop Protection, Surge protection level	
Surge Protection Level	TYPE II(DC), TYPE II(AC)	
General Data		
Operating Temperature Range (°C)	-40 to +65°C, >45°C Derating	
Permissible Ambient Humidity	0-100%	
Permissible Altitude	2000m	
Noise (dB)	≤25	
Ingress Protection(IP) Rating	IP 67	
Inverter Topology	Isolated	
Over Voltage Category	OVC II(DC), OVC III(AC)	
Communication	Wi-Fi, Lora, Bluetooth	
Cabinet Size (WxHxD mm)	364.5×183×32.85 (Excluding Connectors and Brackets)	
Weight (kg)	4.3	
Type of Cooling	Natural Cooling	
Warranty	10 Years	
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE17002, G98, VDE-AR-N 4105	
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	