

Micro On-Grid Inverter

1kW - 2 MPPT & 2 kW - 4 MPPT



Model	FE-1k W	FE-1.3k W	FE-2k W	FE-2.2k W
PV String Input Data				
Max. PV Input Power (W)	210-700 (2 Pieces)	210-460 (4 Pieces)	210-700 (4 Pieces)	210-770 (4 Pieces)
Max. PV Input Voltage (V)	60		60	
Start-up Voltage (V)	20		20	
MPPT Voltage Range (V)	25-55		25-55	
Rated PV Input Voltage (V)	42.5		42.5	
Max. Operating PV Input Current (A)	18+18		18+18+18+18	
Max. Input Short Circuit Current (A)	27+27		27+27+27+27	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1		4/1	
AC Output Side				
Rated AC Output Active Power (W)	1000	1300	2000	2200
Max. AC Output Apparent Power (VA)	1000	1300	2000	2200
Rated AC Output Current (A)	4.6/4.4	6/5.7	9.1/8.7	10/9.6
Max. AC Output Current (A)	4.6/4.4	6/5.7	9.1/8.7	10/9.6
Rated Output Voltage/Range (V)	220/230 0.85Un-1.1Un			
Grid Connection Form	L/N/PE			
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Max. Unit per Branch	5	5	3	3
Power Factor Adjustment Range	0.9 leading-0.9 lagging			
Total Current Harmonic Distortion THDi	<3%			
DC Injection Current	<0.5%In			
Efficiency				
Max. Efficiency	96.5%			
Euro Efficiency	96.0%			
MPPT Efficiency	>99%			
Equipment Protection				
DC Polarity Reverse Connection Protection	Yes			
AC Output Overcurrent Protection	Yes			
AC Output Overvoltage Protection	Yes			
AC Output Short Circuit Protection	Yes			
Thermal Protection	Yes			
DC Terminal Insulation Impedance Monitoring	Yes			
Power Network Monitoring	Yes			
Island Protection Monitoring	Yes			
Earth Fault Detection	Yes			
Overvoltage Load Drop Protection	Yes			
General Data				
Operating Temperature Range (°C)	-40 to +65°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude (m)	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			
Cabinet Size (WxHxD mm)	280.5×190×40 Excluding Connectors and Brackets)		358×255 5×36.5 (Excluding Connectors and.Brackets)	
Weight (kg)	3		4.95	
Warranty	10 Years			
Type of Cooling	Natural Cooling			
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G98, VDE-AR-N 4105			
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			