

1.5 kW to 6.2 kW



Model	FE-1.5 1P-OG	FE-2.2 1P-OG	FE-2.7 1P-OG	FE-3.0 1P-OG	FE-3.3 1P-OG	FE-3.6 1P-OG	FE-4.0 1P-OG	FE-4.2 1P-OG	FE-5.0 1P-OG	FE-5.2 1P-OG	FE-6.0 1P-OG	FE-6.2 1P-OG
Input Side												
Max. DC Input Power (kW)	2	2.9	3.5	3.9	4.3	4.7	5.2	5.5	6.5	6.8	7.8	8.1
Max. DC Input Voltage (V)	550								600			
Start-up DC Input Voltage (V)	80								80			
MPPT Operating Range (V)	70-500								70-550			
Max. DC Input Current (A)	20								20			
Max. Short Circuit Current (A)	30								30			
No.of MPPT Trackers	1								1			
No.of Strings per MPPT Tracker	1								2			
Output Side												
Rated Output Power (kW)	1.5	2.2	2.7	3	3.3	3.6	4	4.2	5	5.2	6	6.2
Max. Active Power (kW)	1.65	2.42	2.97	3.3	3.63	3.96	4.4	4.62	5.5	5.72	6.6	6.82
Rated Output Voltage/Range (V)	220/230 0.85Un - 1.1Un (this may vary with grid standards)											
Rated Grid Frequency (Hz)	50											
Operating Phase	Single phase											
Rated AC Grid Output Current (A)	6.5	9.6	11.7	13	14.3	15.7	17.4	18.3	21.7	22.6	26.1	27
Max. AC Output Current (A)	7.2	10.5	12.9	14.3	15.8	17.2	19.2	20.1	23.9	24.9	28.7	29.7
Output Power Factor	0.9 to 1 Unity power factor											
Total Harmonics Current Distortion	<3%											
DC Injection Current (mA)	<0.5%											
Grid Frequency Range (Hz)	45-55											
Efficiency												
Max. Efficiency	97.3%	97.3%	97.3%	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%
Euro Efficiency	97.1%	97.1%	97.1%	97.3%	97.3%	97.3%	97.3%	97.3%	97%	97%	97%	97%
MPPT Efficiency	>99%											
Protection												
DC Reverse-Polarity Protection	Yes											
AC Short Circuit Protection	Yes											
AC Output Overcurrent Protection	Yes											
Output Overvoltage Protection	Yes											
Insulation Resistance Protection	Yes											
Ground Fault Monitoring	Yes											
Anti-islanding Protection	Yes											
Temperature Protection	Yes											
Integrated DC Switch	Yes											
Remote software upload	Yes											
Remote change of operating parameters	Yes											
Surge protection	DC Type II / AC Type II											
General Data												
Size (mm)	280W×310H×184D（Excluding connectors and brackets）								305Wx280Hx180D			
Weight (kg)	4.8								7.7			
Topology	Transformerless											
Internal Consumption	<1W (Night)											
Running Temperature	-25 to +60℃, >45℃ derating											
Ingress Protection	IP65											
Noise Emission (Typical)	≤35 dB											
Cooling Concept	Natural cooling											
Max. Operating Altitude Without Derating	2000m								3000m			
Warranty	10years											
Grid Connection Standard	IEC 61727, IEC 62116											
Operating Surroundings Humidity	0-100%											
Safety EMC / Standard	IEC 61000-6-1/2/3/4, IEC 62109-1, IEC 62109-2											
Features												
Display	LCD1602											
Interface	RS485/RS232/Wifi/LAN											