

# Single Phase String Inverter



## 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-4.2 1P-OG	FE-5.0 1P-OG	FE-5.2 1P-OG	FE-6.0 1P-OG	FE-6.2 1P-OG
<b>Input Side</b>											
Max. DC Input Power (kW)	2	2.9	3.5	3.9	4.3	4.7	5.2	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				
<b>Output Side</b>											
Rated Output Power (kW)	1.5	2.2	2.7	3	3.3	3.6	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	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 / 60 (Optional)										
Operating Phase	Single phase										
Rated AC Grid Output Current (A)	6.5	9.6	11.7	13	14.3	15.7	17.4	21.7	22.6	26.1	27
Max. AC Output Current (A)	7.2	10.5	12.9	14.3	15.8	17.2	19.1	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	45-55 or 55-65 (Optional)										
<b>Efficiency</b>											
Max. Efficiency	97.3%	97.3%	97.3%	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%	97%	97%	97%
MPPT Efficiency	>99%										
<b>Protection</b>											
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 III										
<b>General Data</b>											
Size (mm)	280W×310H×184D (Excluding connectors and brackets)							305W×280H×180D			
Weight (kg)	4.8							7.7			
Topology	Transformerless										
Internal Consumption	<1W (Night)										
Running Temperature	-25 to +60°C, >45°C 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, CEI 0-21, EN 50549 NRS 097, RD 140, UNE 217002, G98, G99, VDE-AR-N 4105										
Operating Surroundings Humidity	0-100%										
Safety EMC / Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2										
<b>Features</b>											
Display	LCD1602										
Interface	RS485/RS232/Wifi/LAN										