

Single Phase On-grid Inverter

FE - 1.5 - 4 - 1P - OG

Feston
always on



-  1 MPP tracker, Max, efficiency up to 97.5%
-  String intelligent monitoring
-  PID Anti-PID function (Optional)
-  F Zero export application, VSG application
-  Wide output voltage range
-  Low start-up voltage of 80V



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Technical Data

Model	FE-15 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
Input Side							
Max. DC Input Power (kW)	2	2.9	3.5	3.9	4.3	4.7	5.2
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
Max. Active Power (kW)	1.65	2.42	2.97	3.3	3.63	3.96	4.4
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
Max. AC Output Current (A)	7.2	10.5	12.9	14.3	15.8	17.2	19.2
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%
Euro Efficiency	97.1%	97.1%	97.1%	97.3%	97.3%	97.3%	97.3%
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)						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						
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/Wiif/LAN						

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