

Single Phase On-grid Inverter

FE - 4.2 - 6.2 - 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-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)	5.5	6.5	6.8	7.8	8.1
Max. DC Input Voltage (V)	600				
Start-up DC Input Voltage (V)	80				
MPPT Operating Range (V)	70-550				
Max. DC Input Current (A)	20				
Max. Short Circuit Current (A)	30				
No.of MPPT Trackers	1				
No.of Strings per MPPT Tracker	2				
Output Side					
Rated Output Power (kW)	4.2	5	5.2	6	6.2
Max. Active Power (kW)	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)	18.3	21.7	22.6	26.1	27
Max. AC Output Current (A)	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	97.5%	97.5%	97.5%	97.5%	97.5%
Euro Efficiency	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)	305Wx280Hx180D				
Weight (kg)	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	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				