

Feston



Single Phase String Inverter

FE- 1.5 / 2.2 / 2.7 / 3 / 3.3 / 3.6 / 4 -1P-OG



1 MPP tracker, Max, efficiency up to 97.5%



Zero export application, VSG application



String intelligent monitoring



Wide output voltage range



Anti-PID function (Optional)



Low start-up voltage of 80V

Enfield

Technical Data

Model	FE-1.5-1P-OG	FE-2.2-1P-OG	FE-2.7-1P-OG	FE-3-1P-OG	FE-3.3-1P-OG	FE-3.6-1P-OG	FE-4-1P-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						
Start-up DC Input Voltage (V)	80						
MPPT Operating Range (V)	70-500						
Max. DC Input Current (A)	20						
Max. Short Circuit Current (A)	30						
No.of MPP Trackers	1						
No.of Strings per MPP Tracker	1						
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)	3L/N/PE 220/380V, 230/400V 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
Max. AC Output Current (A)	7.2	10.5	12.9	14.3	15.8	17.2	19.1
Output Power Factor	0.8 leading to 0.8 lagging						
Total Harmonics Current Distortion (THDi)	<3%						
DC Injection Current (mA)	<0.5%						
Grid Frequency Range	45-55 or 55-65 (Optional)						
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)						
Weight (kg)	4.8						
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						
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						
Features							
Display	LCD1602						
Interface	RS485/RS232/Wifi/LAN						

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Single Phase String Inverter

FE- 3.6 / 4 / 4.6 / 5 / 5.2 / 6 / 6.2 -1P-OG



1 MPP tracker, Max, efficiency up to 97.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



Low start-up voltage of 80V

Enfield

Technical Data

Model	FE-3.6-1P-OG	FE-4-1P-OG	FE-4.6-1P-OG	FE-5-1P-OG	FE-5.2-1P-OG	FE-6-1P-OG	FE-6.2-1P-OG
Input Side							
Max. DC Input Power (kW)	4.7	5.2	6	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 MPP Trackers	1						
No.of Strings per MPP Tracker	2						
Output Side							
Rated Output Power (kW)	3.6	4	4.6	5	5.2	6	6.2
Max. Active Power (kW)	3.96	4.4	5.06	5.5	5.72	6.6	6.82
Rated Output Voltage/Range (V)	220/230 0.85Un- 1.1Un						
Rated Grid Frequency (Hz)	50 / 60 (Optional)						
Operating Phase	Single phase						
Rated AC Grid Output Current (A)	15.7	17.4	20	21.7	22.6	26.1	27
Max. AC Output Current (A)	17.2	19.1	22	23.9	24.9	28.7	29.7
Output Power Factor	0.8 leading to 0.8 lagging						
Grid Current THD	<3%						
DC Injection Current (mA)	<0.5%						
Grid Frequency Range	45-55 or 55-65 (Optional)						
Efficiency							
Max. Efficiency	97.3%	97.5%	97.5%	97.5%	97.5%	97.5%	97.5%
Euro Efficiency	97.1%	97%	97%	97%	97%	97%	97%
MPPT Efficiency	>99%						
Protection				50.1			
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 （Excluding connectors and brackets）						
Weight (kg)	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	3000m						
Warranty	10years						
Grid Connection Standard	IEC 61727,IEC 62116,CEI 0-21,EN 50549 , NRS 097,RD 140,UNE 217002,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						
Features							
Display	LCD1602						
Interface	RS485/RS232/Wifi/LAN						

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Three Phase String Inverter

FE- 4 / 5 / 6 / 7 / 8 / 10 / 12 -3P-OG



2 MPP tracker, Max, efficiency up to 98.3%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Enfield

Technical Data

Model	FE-4-3P-OG	FE-5-3P-OG	FE-6-3P-OG	FE-7-3P-OG	FE-8-3P-OG	FE-10-3P-OG	FE-12-3P-OG
Input Side							
Max. DC Input Power (kW)	5.2	6.5	7.8	9.1	10.4	13	15.6
Max. DC Input Voltage (V)	1100						
Start-up DC Input Voltage (V)	140						250
MPPT Operating Range (V)	120-1000						200-1000
Max. DC Input Current (A)	20+20						
Max. Short Circuit Current (A)	30+30						
No.of MPP Trackers	2						
No.of Strings per MPP Tracker	1+1						
Output Side							
Rated Output Power (kW)	4	5	6	7	8	10	12
Max. Active Power (kW)	4.4	5.5	6.6	7.7	8.8	11	13.2
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)						
Rated Grid Frequency (Hz)	50 / 60 (Optional)						
Operating Phase	Three phase						
Rated AC Grid Output Current (A)	6.1/5.8	7.6/7.2	9.1/8.7	10.6/10.1	12.1/11.6	15.2/14.5	18.2/17.4
Max. AC Output Current (A)	6.7/6.4	8.3/8	10/9.6	11.7/11.1	13.3/12.8	16.7/15.9	20/19.1
Output Power Factor	0.8 leading to 0.8 lagging						
Grid Current THD	<3%						
DC Injection Current (mA)	<0.5%						
Grid Frequency Range	45-55 or 55-65 (Optional)						
Efficiency							
Max. Efficiency	98.3%						
Euro Efficiency	97.5%						
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)	330W×457H×203D （Excluding connectors and brackets）						
Weight (kg)	11						
Topology	Transformerless						
Internal Consumption	<1W (Night)						
Running Temperature	-25 to +60℃, >45℃ derating						
Ingress Protection	IP65						
Noise Emission (Typical)	≤30 dB						
Cooling Concept	Natural cooling						
Max. Operating Altitude Without Derating	4000m						
Warranty	10years						
Grid Connection Standard	IEC 61727,IEC 62116,CEI 0-21,EN 50549 NRS 097,RD 140,UNE 217002,G98,G99,VDE 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						
Features							
Display	LCD1602						
Interface	RS485/RS232/Wifi/LAN						

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Three Phase String Inverter

FE- 15 - 3P-OG



2 MPP tracker, Max, efficiency up to 98.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Enfield

Technical Data

Model	FE-15-3P-0G
Input Side	
Max. DC Input Power (kW)	19.5
Max. DC Input Voltage (V)	1100
Start-up DC Input Voltage (V)	250
MPPT Operating Range (V)	250 - 1000
Max. DC Input Current (A)	13+26
Max. Short Circuit Current (A)	19.5+39
No.of MPP Trackers	2
No.of Strings per MPP Tracker	1+2
Output Side	
Rated Output Power (kW)	15
Max. Active Power (kW)	16.5
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)
Rated Grid Frequency (Hz)	50 / 60 (Optional)
Operating Phase	Three phase
Rated AC Grid Output Current (A)	22.7/21.7
Max. AC Output Current (A)	25/23.9
Output Power Factor	0.8 leading to 0.8 lagging
Grid Current THD	<3%
DC Injection Current (mA)	<0.5%
Grid Frequency Range	45-55 or 55-65 (Optional)
Efficiency	
Max. Efficiency	98.3%
Euro Efficiency	97.5%
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)	333Wx472Hx203D (Excluding connectors and brackets)
Weight (kg)	15
Topology	Transformerless
Internal Consumption	<1W (Night)
Running Temperature	-25 to +60°C, >45°C derating
Ingress Protection	IP65
Noise Emission (Typical)	≤ 40 dB
Cooling Concept	Smart Cooling
Max. Operating Altitude Without Derating	4000m
Warranty	10years
Grid Connection Standard	IEC 61727, IEC 62116, CEI 0-21, EN 50549 NRS 097, RD 140, UNE 217002, G98, G99, VDE 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
Features	
Display	LCD1602
Interface	RS485/RS232/Wifi/LAN

Feston



Three Phase String Inverter

FE- 18 / 20 / 25 - 3P-OG



2 MPP tracker, Max, efficiency up to 98.6%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Enfield

Technical Data

Model	FE-18-3P-OG		FE-20-3P-OG	FE-25-3P-OG
Input Side				
Max. DC Input Power (kW)	23.4	26	32.5	
Max. DC Input Voltage (V)	1100			
Start-up DC Input Voltage (V)	250			
MPPT Operating Range (V)	200-1000			
Max. DC Input Current (A)	26+26			
Max. Short Circuit Current (A)	39+39			
Number of MPPT	2			
Strings per MPPT	2+2			
Output Side				
Rated Output Power (kW)	18	20	25	
Max. Active Power (kW)	19.8	22	27.5	
Rated Output Voltage/Range (V)	3L/N/PE 220/380V, 230/400V 0.85Un-1.1Un (this may vary with grid standards)			
Rated Grid Frequency (Hz)	50 / 60 (Optional)			
Operating Phase	Three phase			
Rated AC Grid Output Current (A)	27.3/26.1	30.3/29	37.9/36.2	
Max. AC Output Current (A)	30/28.7	33.3/31.9	41.7/39.8	
Output Power Factor	0.8 leading to 0.8 lagging			
Total Harmonics Current Distortion (THDi)	<3%			
DC Injection Current (mA)	<0.5%			
Grid Frequency Range	45-55 or 55-65 (Optional)			
Efficiency				
Max. Efficiency	98.6%			
Euro Efficiency	97.83%			
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)	362×527×220 (Excluding Connectors and Brackets)			
Weight (kg)	20			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25 to +65℃, >45℃ derating			
Ingress Protection	IP65			
Noise Emission (Typical)	≤40 dB			
Cooling Concept	Smart cooling			
Max. Operating Altitude Without Derating	4000m			
Designed Lifetime	10years			
Grid Connection Standard	IEC 61727,IEC 62116,CEI 0-21,EN 50549 , NRS 097,RD 140,UNE 217002,OVE-Richtlinie R25,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			
Features				
Display	LCD1602			
Interface	RS485/RS232/Wifi/LAN			