



Single Phase On-Grid Inverter 1kW-6kW

- High DC/AC ratio for more yields.
- Low start-up Voltage
- Wide Input Voltage Range .
- Anti-PID function
- Anti Islanding/Overvoltage Protection
- Smart cooling models.
- Remote monitoring (Wi-Fi/GPRS).
- Bigger Graphic LCD Display
- Efficiency up to 97.8% for superior energy conversion
- Compact and light weight design for an easy Installation.



TECHNICAL SPECIFICATIONS

MODEL NO.	FE-1.1S1	FE-2.2S1	FE-3.0S1	FE-3.4S1	FE-4.0S1	FE-4.4S1	FE-4.7S1	FE-5.0S1	FE-5.5S1	FE-6.0S1
DC Side/ Input Parameters										
Max DC Power (W)	1350W	2650W	3600W	4100W	4800W	5300W	5650W	6000W	6600W	7200W
Max DC Voltage (Vdc)	550	550	550	550	550	550	550	550	550	550
Min System Start/Shut down Voltage (Vdc)	65/70	75/100	75/100	75/100	75/100	75/100	75/100	75/100	75/100	75/100
MPPT Voltage Range (Vdc)	70~450	100~450	100~450	100~450	100~450	100~450	100~500	100~500	100~500	100~500
Max. Input Current(A)	18 A						22 A			
Max.Input Short Circuit per MPPT	25 A						30 A			
Number Of MPP Trackers	1									
Strings per MPP Trackers	1									
AC Side / Output Parameters										
Rate Output Power (W)	1100	2200	3000	3400	4000	4400	4700	5000	5500	6000
Nominal Output Voltage / Range (V)	208,220,230,240/180-270									
AC Grid Frequency/Range(Hz)	50Hz,60Hz(Auto-Selection)/44Hz-55Hz;54Hz-65Hz									
Maximum Output Current(A)	6	8	12	16	16	16	21	23	23	28
AC Connection(With PE)	Single Phase									
Current Distortion (THDi)	<1.5%	<1.5%	<1.5%	<1.5%	<1.5%	<2.5%	<2.5%	<2.5%	<2.5%	<2.5%
Power Factor	~1% (Adjustable from 0.8 Leading to 0.8 Lagging)									
Efficiency										
Maximum Conversion Efficiency	97.3%	97.3%	97.4%	97.5%	97.8%	97.8%	97.8%	97.5%	97.5%	97.6%
European Efficiency	97.0%	97.0%	97.1%	97.2%	97.3%	97.3%	97.3%	97.2%	97.2%	97.3%
MPPT Efficiency	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%	99.9%
Safety and Protection										
DC Reverse-Polarity Protection	Yes									
Anti Islanding /Overvoltage Protection	Yes									
Short Circuit Protection	Yes									
Leakage Current Protection	Yes									
Grid Monitoring/Ground Fault Monitoring	Yes									
DC/AC Side SPD (Thermally Protected)	Yes									
General Parameters										
Dimension (L/W/H)(mm)	300/294/104						370/318.5/105.5			
Weight (Kg)	5						7			
Embedded DC Switch	Optional									
Night Power Consumption(W)	<0.2									
Isolation Type	Transformerless									
Protection Degree	IP65									
Operation Temperature (°C)	-25 to +60									
Cooling Concept	Natural Convection									
Operating Attitude (m)	<2000m Without Power Derating									
Acoustic Noise Level (dB)	<25									
Display	Graphic LCD									
Communication Interface	Standard WiFi; RS485 (Optional)									
Warranty	10 Years									