

AFx-SL Series

# Single Phase Hybrid Inverter



[www.aforeenergy.com](http://www.aforeenergy.com)

Version: SL2023-01

**Afore**

Afore New Energy Technology (Shanghai) Co., Ltd.

T +86-21-54326236 F +86-21-54326136 E [info@aforeenergy.com](mailto:info@aforeenergy.com)

Ad Building 7, No.333 Wanfang Rd, Minhang District, Shanghai, China. 201112

**Afore**

Afore New Energy Technology (Shanghai) Co., Ltd.

# AFx-SL Series

## Datasheet of Single Phase Hybrid Inverter

Model	AF1K-SL-1	AF1.5K-SL-1	AF2K-SL-1	AF2.5K-SL-1	AF3K-SL-1	AF3.6K-SL-1	AF3K-SL	AF3.6K-SL	AF4K-SL	AF4.6K-SL	AF5K-SL	AF5.5K-SL	AF6K-SL	
<b>PV Input</b>														
Ppv Max (W)	1500	2300	3000	3800	4500	5400	4500	5400	6000	6900	7500	8300	9000	
Vmax PV (Vdc) (absolute Max.)							550							
Min. Operating Voltage (Vdc)							100							
Start-up Voltage (Vdc)							100							
MPPT voltage range (Vdc)							80-500							
Vdc range @ full power (Vdc)	80-500	90-500	120-500	150-500	170-500	210-500	90-500	110-500	120-500	130-500	150-500	160-500	170-500	
Isc PV (absolute Max.) (A)	26	26	26	26	26	26	26 x 2	26 x 2	26 x 2	26 x 2	26 x 2	26 x 2	26 x 2	
Max. PV input current (A)	18.5	18.5	18.5	18.5	18.5	18.5	18.5 x 2	18.5 x 2	18.5 x 2	18.5 x 2	18.5 x 2	18.5 x 2	18.5 x 2	
Number MPP trackers	1	1	1	1	1	1	2	2	2	2	2	2	2	
Number input strings	1	1	1	1	1	1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	
<b>Battery (charge/discharge)</b>														
Battery type							Li-ion/Lead-acid							
Battery Normal Voltage (Range) (Vdc)							51.2V (40-60V)							
Max charge/discharge Current(A)	25	40	50	63	80	80	80	80	80	80	80	80	80	
Max charge/discharge Power(W)	1000	1500	2000	2500	3000	3600	3000	3600	4000	4600	4800	4800	4800	
<b>AC Grid (input and output)</b>														
Normal AC Voltage (V)							L/N/PE, 230Vac							
Frequency (Hz)							50							
Normal AC Current (A)	4.4	6.6	8.7	10.9	13.1	15.7	13.1	15.7	17.4	20	21.8	24	26.1	
Max. cont. input/output current (A)	5	7	10	12	14	17	14	17	19	22	23	26	28	
Rated Power (W)	1000	1500	2000	2500	3000	3600	3000	3600	4000	4600	5000	5500	6000	
Rated Apparent Power (VA)	1000	1500	2000	2500	3000	3600	3000	3600	4000	4600	5000	5500	6000	
Max. cont. Power (W)	1000	1500	2000	2500	3000	3600	3000	3600	4000	4600	5000	5500	6000	
Max. cont. Apparent Power (VA)	1000	1500	2000	2500	3000	3600	3000	3600	4000	4600	5000	5500	6000	
Power factor							1.0 (-0.8-+0.8 adjustable)							
Max. efficiency (%)							97.6							
<b>AC Load output (stand alone)</b>														
Normal Voltage (V)							L/N/PE, 230Vac							
Frequency (Hz)							50							
Nominal Current (A)	4.4	6.6	8.7	10.9	13.1	15.7	13.1	15.7	17.4	20	21.8	24	26.1	
Max. cont. current (A)	5	7	10	12	14	17	14	17	19	22	23	26	28	
Max. cont. Power (W)	1000	1500	2000	2500	3000	3600	3000	3600	4000	4600	5000	5500	6000	
Rated Apparent Power (VA)	1000	1500	2000	2500	3000	3600	3000	3600	4000	4600	5000	5500	6000	
Max. cont. Apparent Power (VA)	1000	1500	2000	2500	3000	3600	3000	3600	4000	4600	5000	5500	6000	
Power factor							1.0							
<b>Others</b>														
Ingress protection (IP)							IP65							
Protective class							Class I							
Temperature (°C)							-25°C to +60°C (Derating 45°C)							
Inverter Isolation							Non-isolated (PV-AC-BAT)							
Overvoltage category							OVC III (AC Main), OVC II (PV)							
Maximum altitude (m)							2000							
Weight (kg)							17							
Dimensions (WxHxD) (mm)							370 x 513 x 192							
Firmware							V06							