

# AF-SL-0 Series / 1-4.6kW

## Residential AC Coupled Hybrid Inverter



Seamlessly Switch Time between EPS with Grid



Smart EMS/BMS



One-piece Aluminum Housing



Proven Safety

**Max. 80A**

Max. 80A Battery Charge and Discharge Current



Island Support

- 97.6% High Frequency Isolation Charge and Discharge Efficiency
- Integrated WIFI Monitoring & Remote Parameter Setting
- Plug & Play, Easy Maintenance
- IP 65 Water-resistant & Dustproof

Battery	AF1K-SL-0	AF1.5K-SL-0	AF2K-SL-0	AF2.5K-SL-0	AF3K-SL-0	AF3.6K-SL-0	AF4K-SL-0	AF4.6K-SL-0
Max. Charge/Discharge Power (kW)	1	1.5	2.0	2.5	3.0	3.6	4.0	4.6
Max. Charge/Discharge Current (A)	25	40	50	63	80	80	80	80
Battery Normal Voltage (V)	51.2							
Battery Voltage Range (V)	40 - 60							
Battery Type	Li-ion/lead-acid etc.							
<b>AC Grid</b>								
Max Continuous Current (A)	5.0	7.0	10.0	12.0	14.0	17.0	19.0	22.0
Max Continuous Power (kVA)	1.0	1.5	2.0	2.5	3.0	3.6	4.0	4.6
Nominal Grid Current(A)	4.6 / 4.4	6.9 / 6.6	9.1 / 8.7	11.4 / 10.9	13.7 / 13.1	16.4 / 15.7	18.2 / 17.4	21.0 / 20.0
Nominal Grid Voltage (V)	198 to 242 @ 220 / 207 to 253 @ 230							
Nominal Grid Frequency (Hz)	50 / 60							
Power Factor	0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited)							
Current THD (%)	< 3							
<b>AC Load Output</b>								
Max Continuous Current (A)	5.0	7.0	10.0	12.0	14.0	17.0	19.0	22.0
Max Continuous Power (kVA)	1.0	1.5	2.0	2.5	3.0	3.6	4.0	4.6
Max Peak Current (A) (10min)	6.9 / 6.6	10.5 / 10.0	13.7 / 13.1	17.1 / 16.4	20.5 / 19.6	24.6 / 23.5	27.3 / 26.1	31.4 / 30.0
Max Peak Power (kVA) (10min)	1.5	2.3	3.0	3.75	4.5	5.4	6.0	6.9
Nominal AC Current (A)	4.6 / 4.4	6.9 / 6.6	9.1 / 8.7	11.4 / 10.9	13.7 / 13.1	16.4 / 15.7	18.2 / 17.4	21.0 / 20.0
Nominal AC Voltage L-N (V)	220 / 230							
Nominal AC Frequency (Hz)	50 / 60							
Switching Time (s)	Seamless							
Voltage THD (%)	< 3							
<b>Efficiency</b>								
Max. Efficiency (%)	97.6							
Bat. between AC Efficiency (%)	96.8							
<b>Protection</b>								
Over Current/Voltage Protection	Yes							
Anti-Islanding Protection	Yes							
AC Short Circuit Protection	Yes							
Residual Current Detection	Yes							
Ground Fault Monitoring	Yes							
Insulation Resister Detection	Yes							
Enclosure Protect Level	IP65 / NEMA4X							
<b>General Data</b>								
Dimensions (H x W x D, mm)	513 x 370 x 192							
Weight	17							
Topology	Tranformer							
Cooling	Intelligent Fan							
Relatively Humidity	0 - 100 %							
Operating Temperature Range (°C)	- 25 to 60							
Operating Altitude (m)	< 4000							
Noise Emission (dB)	< 25							
Standby Consumption (W)	< 10							
Mounting	Wall Bracket							
Communication with RSD	SUNSPEC							
Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G							
Certification & Approvals	NRS97, G98/G99, EN50549-1, C10/C11, AS 4777, VDE-AR-N4105, VDE0126, IEC62040, IEC62109-1, IEC62109-2							
EMC	EN61000-6-2, EN61000-6-3							