

AF-SLP(PLUS) Series / 4-6kW

Residential Single Phase Hybrid Inverter



**Max.
1.5**

1.5 Times PV Oversize

2 MPPT

Up to 2 MPPT Channels

< 10 ms

Switch Time < 10ms



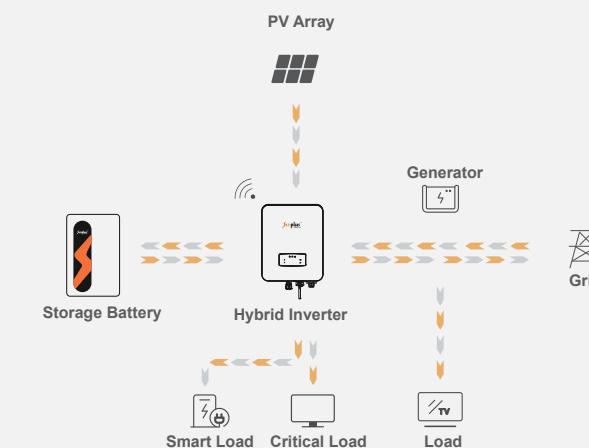
Max. 6 Parallel Stacking



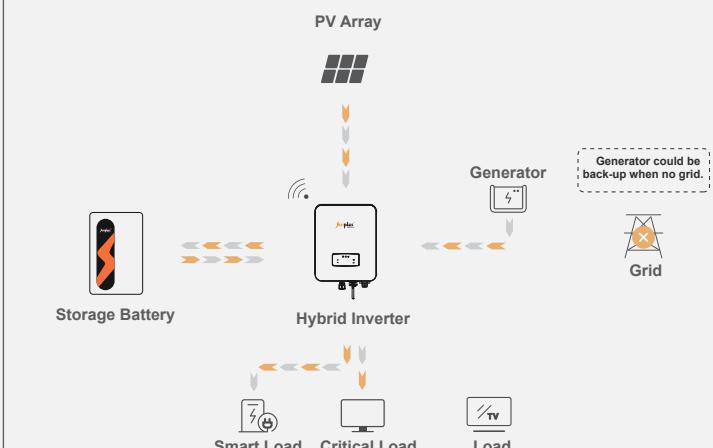
Support Generator

- Support for Time-of-use Optimization
- Configurable Operation Modes
- Arc Fault Circuit Interrupter (AFCI)
- Build in Anti-feed-in Function
- Compact Size and Easy Installation
- Smart Monitoring & Remote Firmware Upgrade

Optimizing Self-Consumption (on-grid)

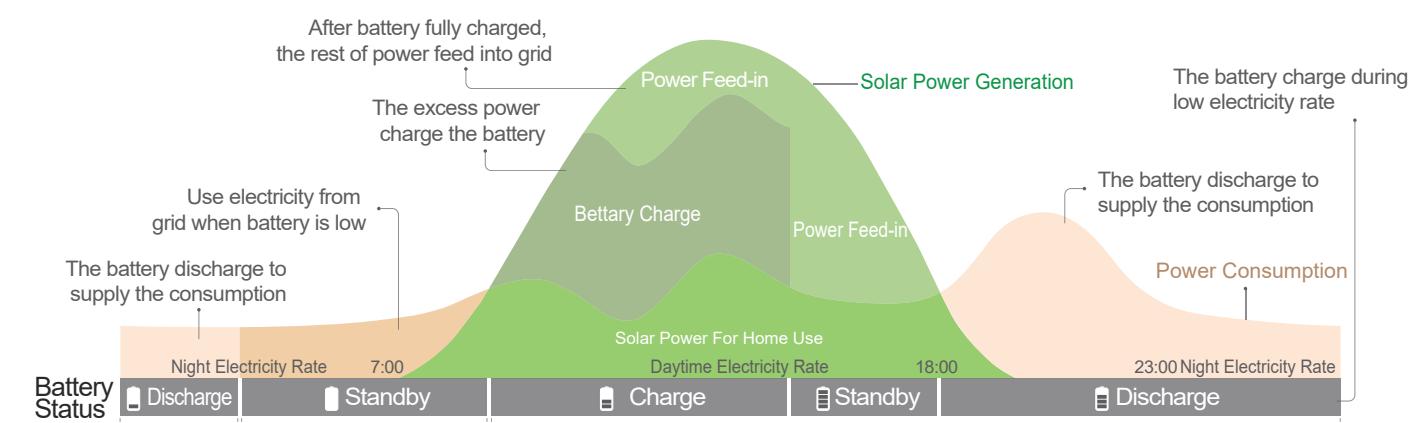


Emergency Power Supply (off-grid)



Optimizing Self-Consumption Mode

With home energy storage installed, home owners may also be able to change from a flat rate electricity tariff to a time-of-use tariff. For the areas and regions, where peak shaving can be applied.



PV Input	AF4K-SLP	AF4.6K-SLP	AF5K-SLP
Max. Input Power (kW)	6	6.9	7.5
Max. PV Voltage (V)		550	
MPPT Range (V)		80 - 500	
Full MPPT Range (V)	120 - 500	130 - 500	150 - 500
Normal Voltage (V)		360	
Startup Voltage (V)		100	
Max. Input Current (A)		18.5 x 2	
Max. Short Current (A)		26 x 2	
No. of MPP Tracker / No. of PV String		2 / 2	
Battery Port			
Max. Charge/Discharge Power (kW)	4.0	4.6	5.0
Max. Charge/Discharge Current (A)		120	
Battery Normal Voltage (V)		51.2	
Battery Voltage Range (V)		40 - 60	
Battery Type		Li-ion / Lead-acid etc.	
AC Grid			
Max Continuous Current (A)	19.0	22.0	23.0
Max Continuous Power (kVA)	4.0	4.6	5.0
Nominal Grid Current(A)	18.2 / 17.4	21.0 / 20.0	22.8 / 21.8
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	
AC Load Output			
Max Continuous Current (A)	19.0	22.0	23.0
Max Continuous Power (kVA)	4.0	4.6	5.0
Max Peak Current (A) (10min)	27.3 / 26.1	31.4 / 30	34.1 / 32.7
Max Peak Power (kVA) (10min)	6.0	6.9	7.5
Nominal AC Current (A)	18.2 / 17.4	21.0 / 20.0	22.8 / 21.8
Nominal AC Voltage L-N (V)		220 / 230	
Nominal AC Frequency (Hz)		50 / 60	
Switching Time (s)		Seamless	
Voltage THD (%)		< 3	
Efficiency			
CEC Efficiency (%)		97.0	
Max. Efficiency (%)		97.6	
PV to Bat. Efficiency (%)		98.1	
Bat. between AC Efficiency (%)		96.8	
Protection			
PV Reverse Polarity Protection		Yes	
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	
PV Arc Detection		Yes	
Enclosure Protect Level		IP65 / NEMA4X	
General Data			
Dimensions (H x W x D, mm)		535 x 370 x 192	
Weight (kg)		20.5	
Topology		Transformerless	
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		NRS097, G98, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-2	
EMC		EN61000-6-2, EN61000-6-3	

PV Input	AF5.5K-SLP	AF6K-SLP
Max. Input Power (kW)	8.3	9
Max. PV Voltage (V)	550	
MPPT Range (V)	80 - 500	
Full MPPT Range (V)	160 - 500	170 - 500
Normal Voltage (V)		360
Startup Voltage (V)		100
Max. Input Current (A)		18.5 x 2
Max. Short Current (A)		26 x 2
No. of MPP Tracker / No. of PV String		2 / 2
Battery Port		
Max. Charge/Discharge Power (kW)	5.5	6.0
Max. Charge/Discharge Current (A)		120
Battery Normal Voltage (V)		51.2
Battery Voltage Range (V)		40 - 60
Battery Type		Li-ion / Lead-acid etc.
AC Grid		
Max Continuous Current (A)	26.0	28.0
Max Continuous Power (kVA)	5.5	6.0
Nominal Grid Current(A)	25.0 / 24.0	27.3 / 26.1
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
AC Load Output		
Max Continuous Current (A)	26.0	28.0
Max Continuous Power (kVA)	5.5	6.0
Max Peak Current (A) (10min)	37.8 / 36.1	41.0 / 39.2
Max Peak Power (kVA) (10min)	8.3	9.0
Nominal AC Current (A)	25.0 / 24.0	27.3 / 26.1
Nominal AC Voltage L-N (V)		220 / 230
Nominal AC Frequency (Hz)		50 / 60
Switching Time (s)		Seamless
Voltage THD (%)		< 3
Efficiency		
CEC Efficiency (%)		97.0
Max. Efficiency (%)		97.6
PV to Bat. Efficiency (%)		98.1
Bat. between AC Efficiency (%)		96.8
Protection		
PV Reverse Polarity Protection		Yes
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
PV Arc Detection		Yes
Enclosure Protect Level		IP65 / NEMA4X
General Data		
Dimensions (H x W x D, mm)		513 x 370 x 192
Weight (kg)		20.5
Topology		Transformerless
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
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EMC		EN61000-6-2, EN61000-6-3