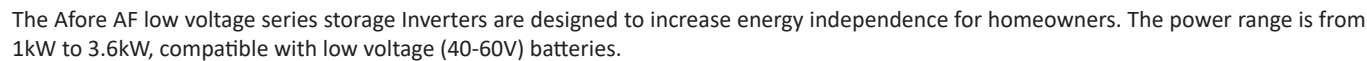


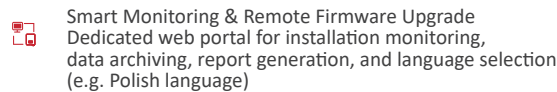
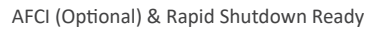
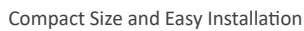
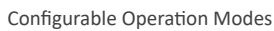
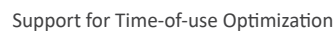
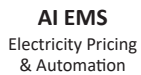
1-3.6 kW



Energy management is based on time-of-use and demand charge rate structures, which significantly reduce the amount of energy purchased from the public grid.

Thanks for the UPS function (switch time < 10ms), that enables the crucial loads power on during outages. Additionally, under the backup operation mode, the inverter provides you up to 150% peak output overloading.

The Afore energy storage inverter features Smart Electricity Pricing & Automation, an energy management tool based on real-time electricity pricing strategies. It continuously monitors electricity price fluctuations and dynamically adjusts device operation accordingly. Operating 24/7 fully automatically without the need for manual intervention, it helps users optimize their electricity usage and reduce energy costs.



Max. Input Power (kW)	1.5	2.3	3.0	3.8	4.5	5.4	4.5	5.4
Max. PV Voltage (V)	600							
MPPT Range (V)	60 - 550							
Normal Voltage (V)	360							
Startup Voltage (V)	60							
Max. Input MPPT Current (A)	18.5 x 1						18.5 x 2	
Max. Short MPPT Current (A)	26 x 1						26 x 2	
No. of MPP Tracker / No. of PV String	1 / 1						2 / 2	

Max. Charge/Discharge Power (kW)	1.0	1.5	2.0	2.5	3.0	3.6	3.0	3.6
Max. Charge/Discharge Current (A)	25	40	50	63			80	
Battery Normal Voltage (V)	51.2							
Battery Voltage Range (V)	40 - 60							
Battery Type	Li-ion / Lead-acid/ Lithium - iron - phosphate							
Compatible with Afore LP Series batteries	Yes							

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+

AC Load Output								
Nominal AC Output Power (kW)	1.0	1.5	2.0	2.5	3.0	3.6	3.0	3.6
Nominal 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	13.7 / 13.1	16.4 / 15.7
Max Continuous Current (A)	5.0	7.0	10.0	12.0	14.0	17.0	14.0	17.0
Max Continuous Power (kVA)	1.0	1.5	2.0	2.5	3.0	3.6	3.0	3.6
Max Peak Current (A) (10s)	6.9 / 6.6	10.5 / 10.0	13.7 / 13.1	17.3 / 16.6	20.5 / 19.6	24.6 / 23.5	20.5 / 19.6	24.6 / 23.5
Max Peak Power (kVA) (10s)	1.5	2.3	3.0	3.8	4.5	5.4	4.5	5.4
Nominal AC Voltage L-N (V)	220 / 230							
Nominal AC Frequency (Hz)	50 / 60							
Switching Time (ms)	<10							
THDV (%)	< 3							
THDi (%)	< 3							
One-phase backup power supply	Yes							

Protection	
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
Grid Monitoring	Yes
DC insulation resistance monitoring	Yes
Leakage current monitoring	Yes
DC Switch	Yes
Overheat protection	Yes
Intelligent I-V curve monitoring	Yes
AC/DC surge protection	Type II
Enclosure Protect Level	IP66
Power Curve Derating under Overload Conditions (Power Limiter)	Yes

Display & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G, Sunspec, Modbus RTU
Certification & Approvals	IEC62109-1, IEC62109-2, IEC62477-1, EN61000-6-1, EN61000-6-2, EN61000-6-3, IEC61000-4-16, IEC61000-4-18, IEC61000-4-29, IEC61727, IEC62116, NCRfG, EN50549-1, compliance with EN50438, PTPIREE, IRIESD
VPP Function	Yes
Control operation modes	Yes
Integrated compatibility with energy storage systems	Yes
Collection and local visualization of electrical energy production data from the installation	Yes
Data transmission through a communication module LSW-5 compliant with the RED 2014/53/EU Directive and EN 18031-1 standard	Yes

Warranty	10 years with the possibility of extension
Energy Management System (EMS)	Yes
Display	Yes
Possibility to select the menu language depending on the country: e.g. Polish language	Yes
Management of PV operation, battery charging and discharging processes, and building energy consumption control.	Yes