Single Phase Hybrid Storage Inverter 8-12 kW

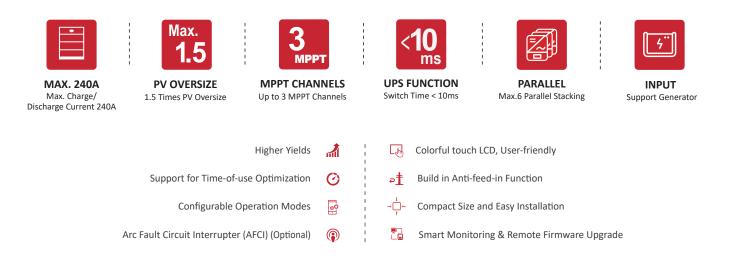


The Afore AF low voltage series storage Inverters are designed to increase energy independence for homeowners. The power range is from 8kW to 12kW, compatible with low voltage (40-60V) batteries.

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 AF low voltage series storage inverters are integrated with Arc Fault Circuit Interrupter (AFCI) and rapid shutdown.



echnical Data	AF8K-SLP	AF9K-SLP	AF10K-SLP	AF11K-SLP	AF12K-SLP
V Input	10	12 5	15	16 5	10
ax. Input Power (kW)	12	13.5	15	16.5	18
ax. PV Voltage (V)			550 80 - 500		
PPT Range (V)	150 500	160 500		150 500	160 500
III MPPT Range (V)	150 - 500	160 - 500	130 - 500 360	150 - 500	160 - 500
ormal Voltage (V) artup Voltage (V)			100		
artup vortage (v) ax. Input Current (A)			18.5 x 3		
ax. Short Current (A)			26 x 3		
o. of MPP Tracker / No. of PV String			3 / 1+1+2		
attery Port			5/1112		
ax. Charge/Discharge Power (kW)	8.0	9.0	10	11	12
ax. Charge/Discharge Current (A)	200	240	240	240	240
attery Normal Voltage (V)	200	240	51.2	240	240
attery Voltage Range (V)			40 - 60		
attery Type	Li-ion / Lead-acid etc.				
C Grid & Diesel Gen (Optional)					
ax Continuous Current (A)	37	41	46	50	55
ax Continuous Current (A)	8.0	9.0	10	11	12
ominal Grid Current (A)		9.0	46 / 44	50 / 48	
minal Grid Current (A)	37 / 35				55 / 52
	198 to 242 @ 220 / 207 to 253 @ 230				
ominal Grid Frequency (Hz)	50 / 60				
rrent THD (%)	0.999 (Adjustable from 0.8 overexcited to 0.8 underexcited)				
C Load Output			< 3		
ax Continuous Current (A)	37	41	46	50	55
ax Continuous Power (kVA)	8	9	10	11	12
x Peak Current (A) (10min)		-			
x Peak Current (A) (10min)	55.5 / 52.5	61.5 / 58.5	69 / 66	75 / 72	82.5 / 78
	12	13.5	15	16.5	18
minal AC Voltage L-N (V) minal AC Frequency (Hz)			220 / 230 50 / 60		
vitching Time (ms)			-		
ltage THD (%)			Seamless < 3		
ficiency			< 5		
			98.1		
ropean Efficiency (%) ax. Efficiency (%)			96.8		
, , ,			90.8		
rotection			Voc		
/ Reverse Polarity Protection It. Reverse Polarity Protection			Yes		
ver Current/Voltage Protection			Yes		
iti-Islanding Protection			Yes		
C Short Circuit Protection			Yes		
esidual Current Detection			Yes		
ound Fault Monitoring			Yes		
Arc Detection			Yes		
closure Protect Level			IP65 / NEMA4X		
eneral Data			,		
nensions (W x H x D, mm)			785 x 614 x 258		
eight (kg)			43		
pology			Transformerless		
oling			Intelligent Fan		
lative Humidity	0 - 100 %				
erating Temperature Range (°C)	- 25 to 60 (Derating 45)				
perating Altitude (m)	< 2000				
andby Consumption (W)			< 30		
ounting			Wall Bracket		
ommunication with RSD	SUNSPEC				
play & Communication Interfaces	LCD, LED, RS485, CAN, Wi-Fi, GPRS, 4G				
tification & Approvals	NRS097, G98, EN50549-1, C10/C11, AS4777.2, VDE-AR-N4105, VDE0126, IEC62109-1, IEC62109-				
			61000-6-2, EN6100		,