

AVRii SOL

HYBRID INVERTER

Avrii SOL Synergy 6-10 kW



Intelligent energy distribution
across individual phases
- full use of resources



AFCI function in standard
- enhancing Installation safety
through arc fault detection



Seamless switching to off-grid
mode - ensuring continuous
energy supply

Control of devices connected
to the internal network-dedicated
digital outputs



Technical support of an
European producer



Additional accessories
included as standard



More than
energy



EUROPEAN
PRODUCER

Avrii SOL Synergy HYBRID INVERTER

Power range 6-10 kW

INPUT DC			
	AvriiSOL-Hybrid-6K3	AvriiSOL-Hybrid-8K3	AvriiSOL-Hybrid-10K3
Max. input power	9000 W	15000 W	
Max. input power on single MPPT	9000 W	9000/6000 W	
Max. DC Voltage		1000 V	
Start-up Voltage		150 V	
MPPT Voltage Range		160-950 V	
Nominal input voltage		620 V	
Number of MPPT		2	
String per MPPT	1/1	1/2	
Max. input MPPT current	15/15 A	20/30 A	
Max. Input short circuit current MPPT	20/20 A	30/40 A	
OUTPUT AC			
Nominal AC output power	6000 W	8000 W	10000 W
Max. AC apparent power	6600 VA	8800 VA	11000 VA
Rated grid voltage		230/400 V, 3P+N+PE	
Rated grid frequency		50 Hz	
Max. AC output current	3*10 A	3*13,3 A	3*16,7 A
Max. single phase power	3000 W	4000 W	5000 W
Mak. single phase current	13,7 A	18,2 A	22,7 A
Max. input power		15 800 VA	
Max. input current		3*25 A	
Power factor PF		>0,99 (adjustable +/- 0,8)	
THDI (%)		<3%	
DC Current Injection		<0,5% In	
EFFICIENCY			
Max. efficiency (DC / AC)	97,3%	97,8%	
Euro. efficiency (DC / AC)	96,7%	97%	
Max. efficiency (BAT / AC)	97,8%	98,4%	
TECHNICAL PARAMETERS FOR COMPATIBLE BATTERY SETS			
Battery type		LFP	
Nominal battery voltage		250-600 V	
Max. charge/discharge power	9000/7000 W	15000/9100 W	15000/11300 W
Max. charge/discharge current	25/25 A	50/50 A	
Number of battery ports		1	
Battery current protection		Yes	
Charging strategy for Li-Ion batteries		Self-adaptation to BMS	
OUTPUT AC PARAMETERS FOR BACKUP			
Nominal output power	6000 W	8000 W	10000 W
Peak power 5 min	7200 VA	9600 VA	12000 VA
Peak power 10 s	9000 VA	12000 VA	15000 VA
Nominal grid voltage		230/400 V, 3P+N+PE	
Nominal output frequency		50 Hz	
Nominal output current	3*9,1 A	3*12,2 A	3*15,2 A
Max. single phase power	3000 W	4000 W	5000 W
Max. single phase current	13,7 A	18,2 A	22,7 A
THDV		<3%	
Switch time		<10 ms	
TECHNICAL PARAMETERS			
Max. operation altitude		4000 m (>2000 derating)	
IP rating		IP65	
Operating temperature range		-25°C — +60 °C	
Relative humidity		0-100%	
Cooling		Natural cooling	
Topology		Transformerless	
Self-consumption during standby		< 15 W	
Mounting		Wall bracket	
Noise level		30 dB	
Dimensions (width x height x depth)		580 x 560 x 218 mm	
Weight	31 kg	34 kg	
DC connection		MC4/H4 (PV/battery)	
PROTECTION AND SAFETY		COMMUNICATION	
DC switch	Yes	Display	LED Indicator, Bluetooth Local App, Remote App, Remote Web Portal
Asymmetric phase energy transfer	Yes	Communication interface	RS485/CAN for BMS; RS485 Smart Meter; DRMs, 2*DI, 2*DO, Wi-Fi, LAN
Protection class	Class I		
Anti-islanding protection	Yes		
AC over current protection	Yes		
AC over voltage protection	Yes		
AC short circuit protection	Yes		
DC reverse protection	Yes		
Surge arrester	DC (Type II), AC (Type II)		
Measurement of insulation resistance	Yes		
Residual current monitoring RCMU	Yes		
Groundfault monitoring	Yes		
Battery reverse polarity protection	Yes		
AFCI	Yes		
DC over voltage protection	Yes		
Overcharge protection	Depending on battery BMS		
Overheat protection	Yes		
COMPATIBLE ENERGY STORAGE			
Avrii SOL Synergy, series AvriiSOL-ESS.5			
CERTIFICATES AND SAFETY STANDARDS			
IEC 50549-1, IEC 62109-1, IEC 62109-2, IEC 62447-1, IEC 61727, IEC 62116,			
WARRANTY			
5 years			





Datasheet_EN_AvriiSOL_Synergy_Hybrid_Inverter_6-10_Rev1.0_12.09.2024



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Management System
ISO 9001:2015
ISO 14001:2015
ISO 45001:2018
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