

AVRii SOL

ENERGY STORAGE
Avrii SOL Synergy



10
Years
warranty



Safe and thermally stable LFP battery system



Work at low temperatures



Flexible extension of capacity

Faster installation of battery modules, without cable connections



Attractive capacity-to-price ratio



10 years warranty



More than
energy



EUROPEAN
PRODUCER

Avrii SOL Synergy – ENERGY STORAGE

Technical specification

TECHNICAL PARAMETERS					
	AvriiSOL-ESS.S-10K Basic kit	AvriiSOL-ESS.S-15K	AvriiSOL-ESS.S-20K	AvriiSOL-ESS.S-25K	AvriiSOL-ESS.S-30K
BMS management module	AvriiSOL-ESS.S-BMS				
Management modules quantity	1				
Battery module	AvriiSOL-ESS.S-B5K				
Battery module quantity	2	3	4	5	6
Cell type	LFP (LiFePO4)				
Nominal capacity	50 Ah				
Total energy	10,24 kWh	15,36 kWh	20,48 kWh	25,6 kWh	30,72 kWh
Usable energy	10,14 kWh	15,21 kWh	20,28 kWh	25,34 kWh	30,41 kWh
Recommended depth of discharge*	80%				
Max. depth of discharge	100%				
Nominal voltage	204,8 Vdc	307,2 Vdc	409,6 Vdc	512 Vdc	614,4 Vdc
Operating voltage range	179,2~233,6 Vdc	269,8~350,4 Vdc	358,4~467,2 Vdc	448~584 Vdc	537,6~700,8 Vdc
Discharge voltage	179,2 Vdc	269,8 Vdc	358,4 Vdc	448 Vdc	537,6 Vdc
Max. charge/discharge current	30 A				
Nominal charging/discharging power	6,14 kW	9,21 kW	12,28 kW	15,36 kW	18,43 kW
Charge/discharge C Rate	0,6 C				
Discharge temperature	- 15°C – + 55°C				
Charging temperature	- 5°C – + 55°C				
Storage temperature	- 15°C – + 55°C				
Recommended operating temperature	10°C – +30°C				
Relative humidity	5% – 95%				
Max. operation altitude	≤ 2000 m				
Ingress protection	IP55				
Dimensions (width x height x depth)	560 x 678 x 400 mm	560 x 910 x 400 mm	560 x 1142 x 400 mm	560 x 1374 x 400 mm	560 x 1606 x 400 mm
Set weight	128 kg	180 kg	232 kg	284 kg	336 kg
Installation method	on the ground				
Communication interface	CAN/RS-485				
Design life expectancy	10 years (0,5 C@25°C ; 80% DoD; 1 cycle per day)				
PROTECTION AND SAFETY					
DC Disconnect	Yes				
Protection class	Class I				
Insulation Resistance Measurement	Yes				
Module Temperature Monitoring	Yes				
Overcharge Protection	Yes				
Integrated Overcurrent Protection	Yes				
INVERTER COMPATIBILITY					
Avrii SOL Synergy from the Avrii SOL-Hybrid-5...10K3 series					
CERTIFICATES AND SAFETY STANDARDS					
IEC62619/UL1973/UL9540/UL9540A/EN61000-6-1&EN61000-6-3					
WARRANTY					
10 years					

* The value is given with a DoD of 90% with a charge/discharge efficiency of 97%



Actual dimensions may vary from those specified on the datasheet by ± 10mm.

Datasheet_EN_AvriiSOL_Synergy_energy_storage_Rev1.2_30.10.2024



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