



DATASHEET

NGEN-STAR 4300 BATTERY

STAR S2/S3/S4/S5/S6/S7

BATTERY STORAGE OF THE NEXT GENERATION

NGEN HIGH VOLTAGE BATTERY

The NGEN-STAR battery provides an energy storage solution characterized by unique performance and flexibility. Its modular design makes it suitable for various storage applications, while the Plug & Play technology ensures quick and effortless installation. This facilitates easy expansion of the battery to achieve a maximum storage capacity of 28,98 kWh.

The NGEN-STAR lithium iron phosphate (LiFePO₄) battery offers high safety standards, maximum capacity, and a compact, user-friendly design.



- Capacity from 8,28 kWh to 28,98 kWh
- 90% Depth of Discharge
- Wide Temperature Tolerance
- Easy Installation
- CAN / RS485 Communication
- Ingress Protection IP65



EXPANDABLE
SYSTEM



EASY
INSTALLATION



10 YEAR
WARRANTY



HIGH
EFFICIENCY



90% DEPTH
OF DISCHARGE

Model	STAR S2*	STAR S3	STAR S4	STAR S5	STAR S6	STAR S7
ELECTRICAL CHARACTERISTICS						
Battery Type	LiFePO4 Prismatic Cell (LFP)					
Battery Module STAR-M4300 [pcs]	1	1	1	1	1	1
Battery Module STAR-S4300 [pcs]	1	2	3	4	5	6
Nominal Capacity [kWh]	8,28	12,42	16,56	20,70	24,84	28,98
Nominal Voltage [V]	115.2	172.8	230.4	288	345.6	403.2
Operating Voltage [V]	97.2-131.4	145.8-197.1	194.4-262.8	243-328.5	291.6-394.2	340.2-459.9
Recommend Discharge Current [A]	35					
Max. Charge / Discharge Current [A]	50					
Peak Discharge Current [A]	60 @30sec					
Battery Pack Round-trip Efficiency	>95%					
Depth of Discharge	90%					
Cycle Life	>6000					
Communication	CAN, RS485					
Display	CS: LED*1, CM: LED*6					
Scalability	Max. 7 Modules in Series (28,98kWh)					
OPERATING CONDITIONS						
Installation Location	Outdoor / Indoor (Stand)					
Operating Temperature [°C]	Charge: 0 to +55 and Discharge: -10 to +55					
Storage Temperature [°C]	-20 to +55					
Cooling Method	Natural Convection					
Humidity (No Condensation) [%]	5 to 95					
Max. Altitude [m]	2000					
Warranty	Standard 10 / Advanced 12 **					
Ingress Protection	IP65					
MECHANICAL CHARACTERISTICS						
Dimensions (W*H*D) [mm]	570*366*380	570*494*380	570*622*380	570*750*380	570*878*380	570*1006*380
Weight [kg]	78.5	115.5	152.5	189.5	226.5	263.5
CERTIFICATES						
Safety	IEC62619					
EMC	EN IEC 61000-6-1/2/3/4					
Transportation	UN38.3					
Compliance	EN 50549-1					

* STAR S2 - Compatible only with Single-Phase inverter, series STAR-H1.

** Standard Warranty: 10 years or 6000 Cycles.

** Advanced Warranty: 12 years or 6000 Cycles when the Battery is connected to the Hybrid Inverter and the SG Connect System Solution.



Refer to NGEN STAR Warranty Terms and Conditions