



# DATASHEET

## NGEN-STAR 4800 BATTERY

### STAR S2/S3/S4/S5/S6/S7/S8/S9

#### 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 41,94 kWh.

The NGEN-STAR lithium iron phosphate (LiFePO<sub>4</sub>) battery offers high safety standards, maximum capacity, and a compact, user-friendly design.



- Capacity from 4,66 kWh to 41,94 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	STAR S8	STAR S9
ELECTRICAL CHARACTERISTICS								
Battery Type	LiFePO4 Prismatic Cell (LFP)							
Battery Module STAR-M4800 [pcs]	1	1	1	1	1	1	1	1
Battery Module STAR-S4800 [pcs]	1	2	3	4	5	6	7	8
Nominal Capacity [kWh]	9,32	13,98	18,64	23,3	27,96	32,61	37,27	41,93
Nominal Voltage [V]	89,6	134,4	179,2	224	268,8	313,6	358,4	403,2
Operating Voltage [V]	81.2-103.0	121.8-154.5	162.4-206.0	203.0-257.6	243.6-309.1	284.2-360.6	324.8-412.2	365.4-463.7
Normal capacity [Ah]	104							
Recommend Charge/Discharge Current [A]	30							
Max.Charge/Discharge Current [A]*2	50							
Peak Discharge Current(60S) [A]	65 @60sec							
Battery Pack Round-Trip Efficiency*1	>95%							
Depth of Discharge	90%							
Cycle Life	>6000							
Communication	CAN							
Display	EQ4800-S: LED*1, EQ4800-M: LED*6							
Scalability	Max. 9 Modules in Series (41,94kWh)							
OPERATING CONDITIONS								
Installation Location	Outdoor / Indoor (Stand)							
Operating Temperature [°C]	Charge: 0 to +55 and Discharge: -10 to +55							
Storage Temperature [°C]	from -10 to +35							
Cooling Method	Natural Convection							
Humidity (No Condensation) [%]	5 to 95							
Max. Altitude [m]	2000							
Warranty	Standard 10 / Advanced 12 **							
Protection Degree	IP65							
MECHANICAL CHARACTERISTICS								
Dimensions (W*H*D) [mm]	570*386*380	570*524*380	570*662*380	570*800*380	570*938*380	570*1076*380	570*1214*380	570*1352*380
Weight [kg]	83.5	122.5	161.5	200.5	239.5	278.5	317.5	356.5
CERTIFICATES								
Safety	IEC62619							
EMC	EN IEC 61000-6-1/2/3/4							
Transportation	UN38.3							

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

\*1, @25°C, @70% SOH, @90% DOD, 0.3C charging/discharging

\*2, The current is affected by temperature ,cell voltage and SOC

\*\* 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