



DATASHEET

NGEN STAR G-MAX BATTERY

BATTERY STORAGE OF THE NEXT GENERATION

AC-Coupled G-MAX BATTERY

The STAR G-Max follows an “All-in-one” design philosophy, combining a long-lasting battery, intelligent BMS, high-performance PCS, preventive safety system, smart distribution system, and heat dissipation management system into a single standard enclosure. This approach ensures standardized manufacturing and simplifies installation.



100% DEPTH
OF DISCHARGE



EXPANDABLE
SYSTEM



EASY
INSTALLATION



15 YEAR
WARRANTY



HIGH
EFFICIENCY



LIQUID
COOLING

- **Powerful Performance:** 100 kW AC-Output, 200kWh AC-Storage capacity and a peak AC-Output of 110 kW
- **Scalable Solution:** Cluster capability allows connection of up to 120 units, achieving 12 MW output and 25,8 MWh capacity.
- **Efficient Cooling:** Liquid cooling ensures optimal temperature control and maximum performance.
- **Easy Integration:** Plug & Play functionality for seamless integration in existing energy systems.
- **User-Friendly Management:** SG Connect app for intuitive control and real-time optimization.
- **Versatile Applications:** Ideal for peak shaving, dynamic pricing, and energy market participation.
- **Flexible Compatibility:** Integrates with solar, wind, and other energy sources, either standalone or hybrid.
- **Low Maintenance:** Designed for easy installation and long-term reliability.

Model	STAR G-MAX
DC-BATTERY MODULE DATA	
Battery Type [V/Ah]	LFP 3.2/280
Battery Pack Capacity [kWh]	53.76
Battery DC-System Capacity [kWh]	215
Battery DC-Operating Voltage Range [V]	672 - 876
Number of Temperature Sensor	128
AC OUTPUT DATA	
Rated Output Power [kW]	100
Peak Output Power [kW]	110
THDi [%]	<3
Nominal Voltage [Vac]	380/400, 3L/N/PE
Power Factor	>0.99
Adjustable Power Factor Range	-1 ~ 1 (leading - lagging)
Nominal Frequency [Hz]	50/60
SYSTEM DATA	
System Capacity [kWh]	200 (AC) / 215 (DC)
Cluster Capability	up to 120 units (12 MW output and 25,8 MWh capacity)
Round Trip Efficiency [%]	>89
Depth of Discharge [%]	100
Discharge Energy throughput [MWh]	1.084 (AC) / 1.184 (DC)
Cycle life	6570 full cycles @70% SOE
Ingress protection (IP) rating of battery modules	IP67
Corrosion protection class	C4
Cooling type	Liquid cooling
Altitude [m]	≤3000
Operation Temperature [°C]	-25 ~ 55
Operation Humidity [%]	0 ~ 95, non-condensing
Noise [dB]	<75
Dimension [WxDxH][mm]	1040 x 1500 x 2200
Fire Protection	Aerosol
Weight [Kg]	2500
Communication Interfaces	RS485/Ethernet
Warranty	Standard 10 years / Extended Warranty to 15 years **
Grid Code	CEI 0-21, CEI 0-16, EN 50549-1, EN 50549-2, EN 50549-10, TOR type A, C11/10, G99
Safety/EMC	IEC 62619, IEC 60730-1 appended H, IEC 62477-1, IEC 61000-6-2, IEC 61000-6-4, UN 38.3, UL 9540A

* The Certification for the additional Grid-Codes is in progress. Please contact us to get more information about the Status.

** The G-Max 10-year and 15-year warranty is valid only if the system remains connected to SG Connect and an active Maintenance Agreement is maintained with SG Connect's authorized partners.



Please refer to NGEN-STAR G-MAX Warranty Terms and Conditions