



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 container. 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 output and 215 kWh DC-Battery capacity.
- **Scalable Solution:** Cluster capability allows connection of up to 40 units, achieving 4 MW output and 8 MWh capacity.
- **Efficient Cooling:** Liquid cooling ensures optimal temperature control and maximum performance.
- **Easy Integration:** Plug and 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 [kWh]	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	
AC System Capacity [kWh]	200
Cluster Capability	up to 40 units (4 MW output and 8 MWh capacity)
Round Trip Efficiency [%]	>89
DOD [%]	100
Discharge Energy throughput with equivalent cycles	1260 MWh i.e. 5860 cycles @70% EOL
Ingress Protection	IP55
Cooling type	Liquid cooling
Altitude [m]	≤3000
Operation Temperature [°C]	-25 ~ 55
Operation Humidity [%]	5 ~ 95, non-condensing
Noise [db]	<75 @1m
Dimension [W*D*H][mm]	1000*1500*2200
Fire Protection	Aerosol
Weight [Kg]	2500
Communication Interfaces	RS485/Ethernet
Warranty	15 year **
Grid Code	CEI-021 / EN 50549-1 / EN 50549-2 / *
Safety/EMC	IEC62619 / IEC62477 / EC61000 / UN38.3

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

** The G-Max 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. This includes an annual fee and a mandatory yearly inspection. Failure to meet these conditions will result in the warranty being voided.

