

YOUR
SMART
ENERGY

STORION-G2-H50

COMMERCIAL &
INDUSTRIAL SERIES

POWER

50 kW Hybrid Inverter

CAPACITY

8.0 kWh Battery Module
104.83 / 209.66 kWh



KEY FEATURES

- **All in One Design**
The cabinet contains batteries, PCS, DC/DC, STS, and EMS, but only occupies a small area.
- **Support Multi-Direction Roof**
PV Input: 4*MPPT with 200V ~ 850V MPPT Voltage
- **Multiple System Operation Monitoring**
Local SCADA Monitoring & Remote Commercial and Industrial Cloud
- **Max 5 systems in on-grid parallel, 3 systems in off-grid parallel**
Single system switching time $\leq 20\text{ms}$, parallel system switching time $\leq 100\text{ms}$

STORION-G2-H50



System Functions

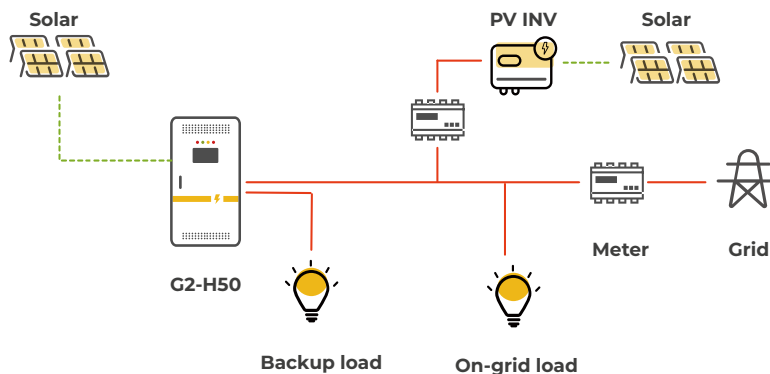
Backup

Max 5 Systems in Parallel

Peak Shaving and Load Shifting

Timed Charge and Discharge

System Diagram



Model

STORION-G2-H50

System Technical Specifications

Battery Chemistry	LiFePO4
Battery Energy Range	104.83 kWh
Depth of Discharge(DOD)	90% (On-Grid), 85 % (Off-Grid)
IP Protection	IP20
Standard Battery Cluster	1*
Warranty	5 Years Product Warranty, 10 Years Battery Performance Warranty

PV Side

Max. input power	75 kW
Start-up voltage	135 V
MPPT Voltage Range	200 ~ 850 V
Number of MPPT	4
Number of Strings for Each MPPT	2
Max. Input Current	30 A / 30 A / 30 A / 30 A
Max. Short-circuit Current	40 A / 40 A / 40 A / 40 A

AC Data(Grid)

Rated Output Power	50 kW
Max. Input Power	60 kW
Rated Grid Voltage	3L / N / PE 220 V / 380 V; 230 V / 400 V
Grid Frequency	50 / 60 Hz
Rated Current	83 A
Output THDi	< 3 %
AC PF	0,8 leading ... 0,8 lagging

AC Data (Backup)

Rated Output Power	50 kW
Max Output Apparent Power	55 kVA
Rated Grid Voltage	3L / N / PE 220 V / 380 V; 230 V / 400 V
Grid Frequency	50 / 60 Hz
Max Current	83 A

General Data

Dimensions(W x D x H)	(950 + 300) x 900 x 2050 mm
Weight	1237 kg (with M38210-SC)
Operating Temperature Range	-20 °C ~ 50 °C (PCS > 45°C derating)
Relative Humidity	0 ~ 95% (No Condensation)
Max. Working Altitude	3000 m / 9842 ft (> 3000 m derating)
Cooling Method	Forced Air-Cooling
Communication Interfaces	RS485, CAN, Modbus TCP, Ethernet
Display	SCADA
Certifications	IEC 62477, IEC 61000, IEC 62109, EN 50549-1, VDE 4105, G99, G100, C10/C11**, TOR Erzeuger**, NC RFG, UNE 217001/2**, CEI-021/016

** Max support 2 battery clusters, extra battery cabinet is needed.

** The certification process is ongoing.

STORION-G2-H50



Model		STORION-G2-H50
Battery Cluster System		

Item	Data	
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Battery Module		M38210-SC 0.5C
Battery Chemistry		LiFePO4
Pack		3.2 V / 105 Ah@2P12S
Internal Resistance		≤ 10 mΩ
Nominal Capacity		8064 kWh
Rated Voltage		38.4 V
Operating Voltage		36 V ~ 43.2 V
Max. Charging/Discharging Current		105 A
System Cycle Life		6000*
Operating Temperature Range		-10 °C ~ 50 °C**
IP Protection		IP21
Communication		CAN
Dimensions (W x D x H)		325 x 658 x 232 mm
String Pack QTY		12
Certifications		IEC 62619, IEC 62477, IEC 61000

Meter (Optional)



Model		DTSU666
Rated Voltage		230V AC / 400V AC
Accuracy Class		± 1%
Communication		RS485, Modbus, RTU
Dimensions (W × D × H)		72 × 80 × 101 mm
CT Model		AKH-0.66, K-30×20
CT Current Ratio		400 / 5 A
CT Perforation Size		32 × 22 mm

Expansion Battery Cluster (Optional)



Model		ALPBC-105
Battery		M38210-SC
Cluster Capacity		104.8 kWh
Max. Charging / Discharging Current		105 A
Battery Cluster Voltage Range		468 V ~ 561.6 V
Battery Rack		2 x 7
Fire-Fighting System		Smoke detect
Dimensions (W×D×H)		740 x 900 x 2050 mm
Weight		1115 kg

* Under specific test conditions.

** Max. charge/discharge current derating may occur with changes in temperature and SoC.







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
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