



• YOUR
• SMART
• ENERGY

STORION-G2-H30

COMMERCIAL &
INDUSTRIAL SERIES

POWER

30 kVA Hybrid Inverter

CAPACITY

- 6.9 kWh Battery Module
Expandable from 34.5kWh to 110.6 kWh
- 8.0 kWh Battery Module
Expandable from 64.5 to 209.6 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
- **Seamless Switching**
On/Off-grid switching time < 20ms
- **Max 3 Systems in Parallel**
Max power 90 kW by parallel operation

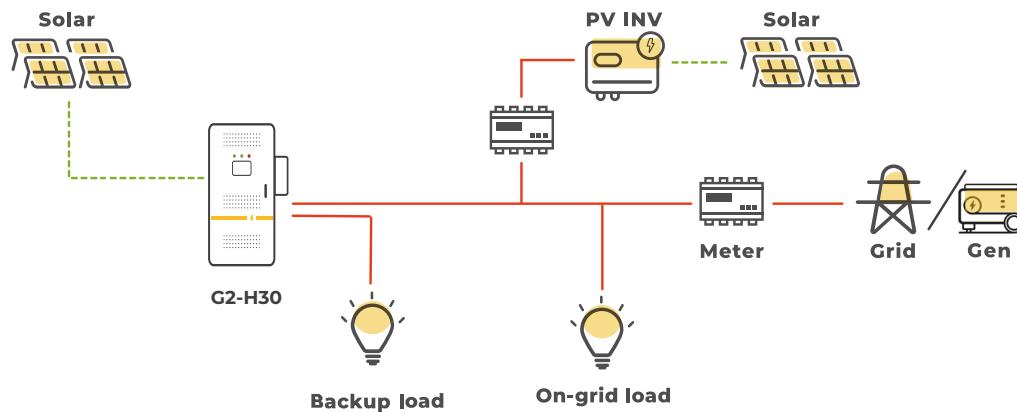
STORION-G2-H30



System Functions

- Backup
- Max 3 Systems in Parallel
- Peak Shaving and Load Shifting
- Timed Charge and Discharge

System Diagram



Model	STORION-G2-H30 / STORION-G2-H30-O
System Technical Specifications	
Battery Chemistry	LiFePO4
Battery Energy Range	34.5 kWh~209.6 kWh
Depth of Discharge (DoD)	90% (On-Grid), 85% (Off-Grid)
IP Protection	IP20 / IP55
Standard Battery Cluster	1*
Warranty	5 Years Product Warranty, 10 Years Battery Performance Warranty**
PV Side	
Max. input power	45 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 / 40A / 40 A
AC Data (Grid)	
Rated Output Power	30 kW
Max. Input Power	36 kVA
Rated Grid Voltage	3L / N / PE 220 V / 380 V; 230 V / 400 V
Grid Frequency	50 / 60 Hz
Max. Output Current	50 A
Output THDi	<3%
AC PF	0.8 leading ... 0.8 lagging
AC Data (Backup)	
Rated Output Power	30kW
Max Output Apparent Power	33 kVA
Rated Grid Voltage	3L / N / PE 220 V / 380 V; 230 V / 400 V
Grid Frequency	50 / 60 Hz
Max. Output Current	50 A
General Data	
Dimensions (W x D x H)	STORION-H30: 1100 x 900 x 2160 mm STORION-H30-O: 1100 x 1200 x 2160 mm
Weight	STORION-H30: 660~850 kg (with M7790-S) / 860~1170 kg (with M38210-SC) STORION-H30-O: 760~950 kg (with M7790-S) / 960~1270 kg (with M38210-SC)
Operating Temperature Range	STORION-H30: -10°C ~ 50°C / STORION-H30-O: -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***



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

** The product warranty period can be extended.

** The certification process is ongoing.

STORION-G2-H30



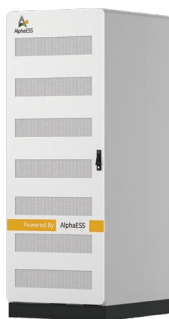
Model		STORION-G2-H30 / STORION-G2-H30-O	
Battery Cluster System			
Item	Data		
	Battery Module		M7790-S 1C
Battery Chemistry		LiFePO4	LiFePO4
Pack		3.2 V / 90 Ah@1P24S	3.2 V / 105 Ah@2P12S
Internal Resistance		≤10 mΩ	≤10 mΩ
Nominal Capacity		6.912 kWh	8.064 kWh
Rated Voltage		76.8 V	38.4 V
Operating Voltage		72 V ~ 84.48 V	36 V ~ 43.2 V
Max. Charging/Discharging Current		90 A	105 A
System Cycle Life		6000*	6000*
Operating Temperature Range		-10 °C ~ 50 °C**	-10 °C ~ 50 °C**
IP Protection		IP21	IP21
Communication		CAN	CAN
Dimensions (W x D x H)		326 x 654 x 250 mm	325 x 658 x 232 mm
String Pack QTY		5~8	8~13
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		M7790-S	M38210-SC
Cluster Capacity		34.5~55.3 kWh	64.48~104.8 kWh
Max. Charging/Discharging Current		90 A	105 A
Battery Cluster Voltage Range		360 V ~ 675.8 V	288 V ~ 549.1 V
Battery Rack		2 x 7	
Fire-Fighting System		Smoke detect	
Dimensions (W×D×H)		700 x 850 x 2160 mm	
Weight		610~800 kg	810~1120 kg

*Under specific test conditions.

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



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