



• YOUR
• SMART
• ENERGY

STORION-G2-H30-O

COMMERCIAL &
INDUSTRIAL SERIES

POWER

30 kW Hybrid Inverter

CAPACITY

- 6.9 kWh Battery Module
34.56~55.3 kWh
- 8.0 kWh Battery Module
64.5~ 96.7 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 $\leq 100\text{ms}$

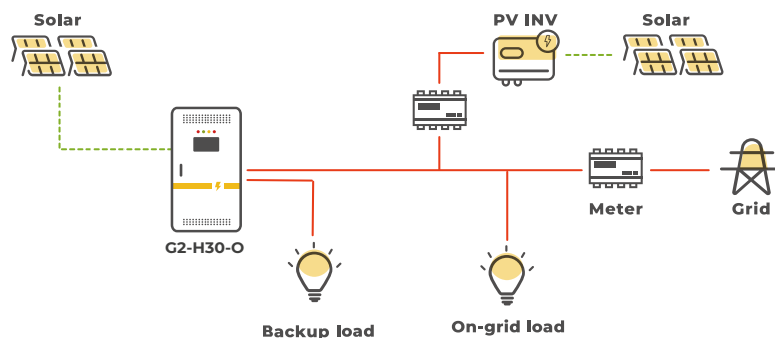
STORION-G2-H30-O



System Functions

- Backup
- Max 5 Systems in Parallel
- Peak Shaving and Load Shifting
- Timed Charge and Discharge

System Diagram



Model	STORION-G2-H30-O
System Technical Specifications	
Battery Chemistry	LiFePO4
Battery Energy Range	34.5~96.7kWh
Depth of Discharge (DoD)	90% (On-Grid), 85% (Off-Grid)
IP Protection	IP55
Standard Battery Cluster	1*
Warranty	5 Years Product Warranty, 10 Years Battery Performance Warranty
PV Side	
Max. input power	45kW
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 kW
Max. Output Apparent Power***	33 kVA ¹⁾
Rated Grid Voltage	3L / N / PE 220 V / 380 V; 230 V / 400 V
Grid Frequency	50 / 60 Hz
Rated Current	50 A ²⁾
Output THDi	<3%
AC PF	0.8 leading ... 0.8 lagging
AC Data (Backup)	
Rated Output Power	30 kW
Max Output Apparent Power***	33 kVA ¹⁾
Rated Grid Voltage	3L / N / PE 220 V / 380 V; 230 V / 400 V
Grid Frequency	50 / 60 Hz
Max Current	50 A ²⁾
General Data	
Dimensions (W x D x H)	(1200+300) x 900 x 2160 mm
Weight	877-1072 kg (with M7790-S) / 1072-1397 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.

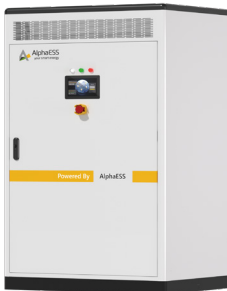
**The certification process is ongoing.

*** Max apparent power from the grid means the maximum power imported from the utility grid used to satisfy backup load and battery charging;

1) VDE-AR-N 4105 and C10/I1: 30.0 KVA 2) VDE-AR-N 4105 and C10/I1: 43.5A

STORION-G2-H30-O



Model		STORION-G2-H30-O	
Battery Cluster System			
Item	Data		
		M7790-S 1C	M38210-SC 0.5C
Battery Module		LiFePO4	LiFePO4
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 ~ 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-O	
	Battery	M7790-S	M38210-SC
	Cluster Capacity	34.56 ~ 55.29 kWh	64.51 ~ 96.76 kWh
	Max. Charging/Discharging Current	90 A	105 A
	Battery Cluster Voltage Range	576 V ~ 675.8 V	432 V ~ 518.4 V
	Battery Rack	2 x 6	
	Fire-Fighting System	Aerosol+Smoke/Temperature	
	Dimensions (W×D×H)	1200 x 900 x 2160 mm	
	Weight	785-980 kg	980-1240 kg

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



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