



YOUR
SMART
ENERGY

STORION-H29/H30

COMMERCIAL &
INDUSTRIAL SERIES

POWER

29.9 / 30 kW

CAPACITY

- 6.9 kWh Battery Module
Expandable from 34.56 to 55.29 kWh
- 8.0 kWh Battery Module
Expandable from 64.51 to 96.76 kWh



KEY FEATURES

● All-in-One Design

The cabinet contains batteries, PCS, DC/DC, and EMS, but only occupies a small area.

● Quick Installation

Backplug battery solution greatly reduces on-site installation time and risks.

● Hybrid Input

PV Input: 3*MPPT with 250V ~ 830V PV Voltage (MPPT 250 ~ 750V)

Battery Input: 150V ~ 750V (350V ~ 750V@full load), Max 1C Charging/Discharging

● Multiple System Operation Monitoring

Local SCADA Monitoring & Commercial and Industrial Cloud

● Max 3 Systems in Parallel

Max power 90 kW by parallel operation (On / Off-grid)



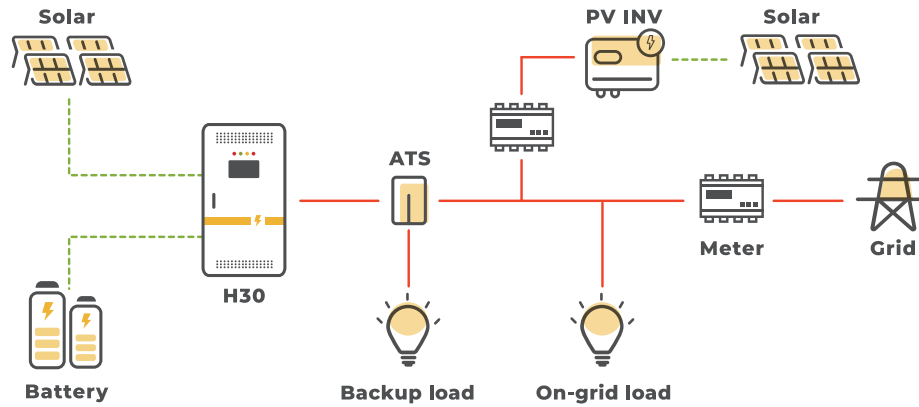
STORION-H29/H30



System Functions

- Backup (Optional)
- Radio Ripple Control Receiver *
- Peak Shaving and Load Shifting
- Timed Charge and Discharge

System Diagram



Model	STORION-H29/H30	STORION-H29/H30-O
System Technical Specifications		
Battery Chemistry	LiFePO4	
Depth of Discharge (DoD)	90% (On-Grid), 85% (Off-Grid)	
Battery Energy Range	34.56 kWh ~ 96.77 kWh	
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	250 V	
MPPT Voltage Range	250 V ~ 750 V	
Number of MPPT	3	
Number of Strings for Each MPPT	2	
Max. Input Current	35 A / 35 A / 35 A	
Max. Short-circuit Current	40 A / 40 A / 40 A	
AC Data (Grid)		
Rated Output Power	29.9 kW / 30 kW	
Max. Input Apparent Power	29.9 kVA / 33 kVA	
Rated Grid Voltage	3L / N / PE 400 VAC±15%	
Grid Frequency	50 / 60 Hz	
Rated Current	42 A	
Output THDi	<3%	
AC PF	Listed: 0.8 ~ 1 leading or lagging; Actual: 0.1 ~ 1 leading or lagging	
Peak Efficiency	97.30%	
AC Data (Backup**)		
Rated Output Power	29.9 kW / 30 kW	
Max Output Apparent Power	29.9 kVA / 33 kVA	
Rated Output Voltage	3L / N / PE 400 VAC±20%	
Frequency	50 / 60 Hz	
Overload Capacity	110% ~ 120%, 10min; 120% ~ 150%, 200ms	
General Data		
Dimensions (L x W x H)	1100 x 900 x 2000 mm	1200 x 900 x 2160 mm
Weight of the Whole System	<1.4T (Full Battery)	<1.6T (Full Battery)
Operating Temperature Range	-10°C ~ 50°C (PCS > 45°C derating)	-20°C ~ 50°C (PCS > 45°C derating)
Relative Humidity	0 ~ 95% (Non-Condensing)	
Max. Working Altitude	3000 m / 9842 ft	
Cooling	Forced Air-Cooling	HVAC
Communication Interfaces	RS485, CAN, Modbus TCP, Ethernet	
Fire Protection	Smoke Temperature Composite Detector	Aerosol Fire Protection
Safety	IEC 62109-1&-2, IEC 62477-1, IEC 61000-6	
Certifications	VDE 4105, VDE 4110, Tor R25, EN 50549-1, G99, CEI 0-21***, UNE 217001, UNE 217002, RD 1699, NTS 631, AS4777.2	



* Only for Germany.
 ** Optional Function.
 *** With battery M38210-SC



STORION-H29/H30



Battery Parameters

Item	Data		
Battery Module		M7790-S 1C	M38210-SC 0.5C
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****
Communication		CAN	CAN
Dimensions (W x D x H)		326 x 654 x 250 mm	325 x 658 x 232 mm
Weight		64 kg	64 kg
String Pack QTY		5 ~ 8	8 ~ 12
Certifications		IEC 62619, IEC 61000	IEC 62619, IEC 61000

PCS Parameters



30kW High Power Density
Bi-Directional Power
Conversion System
DC-Coupled Solution

Item	Data
Battery Voltage Range	150 V ~ 750 V (350 V ~ 750 V@full load)
Max. Battery Current	90 A
Rated Output Power	29.9 kW / 30 kW
Rated Grid Voltage	3L / N / PE 400VAC±15%
Grid Frequency	50 / 60 Hz
Weight	33 kg

DC/DC Parameters



High Power Density
Bi-Directional DC-DC Converter
Modular Design

Item	Data
Rated Power	45 kW
PV Input Voltage Range	250 V ~ 830 V
Rated Input Voltage	600 V
MPPT Voltage Range	250 V ~ 750 V
Number of MPPT	3
Max. Input Current	35 A / 35 A / 35 A
Output Voltage Range	700 V ~ 830 V
Rated Output Voltage	700 V
Rated Output Current	65 A
Max. Output Current	75 A
Weight	25 kg

ATS Parameters (Optional)



ATS Built-In Bypass

Item	Data
Max. Input Power	100 kVA (Grid & Load)
Rated Grid Voltage	3L / N / PE 400 VAC±15%
Grid Frequency	50 / 60 Hz
Switching Time	<30 ms (Backup)
Dimensions (W x D x H)	440 x 920 x 205 mm
IP Protection	IP54
Weight	32 kg

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

**** Under specific test conditions.

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Alpha ESS Co., Ltd.

Tel: +86 513 8060 6891
Email: info@alpha-ess.com
Website: www.alphaess.com
Add: No. 1086 Bihua Road, Nantong High-Tech Industrial Development Zone, Nantong, Jiangsu Province, China

Alpha ESS International Pte. Ltd.

Tel: +65 6513 1125 / +65 6513 1126
Email: Singapore@alpha-ess.com
Add: 2 Corporation Road #01-06A Corporation Place 618494 Singapore

Alpha ESS Australia Pty. Ltd.

Tel: +61 02 9000 7676
Email: Australia@alpha-ess.com
Website: www.alphaess.com
Add: 8/15-21 Gibbes Street, Chatswood, NSW 2067 Australia

Alpha ESS Europe GmbH

Tel: +49 6103 4591 601
Email: europe@alpha-ess.de
Website: www.alpha-ess.de
Add: Paul-Ehrlich-Straße 1a, Langen, Hessen D-63225 Germany

Alpha ESS UK Ltd.

Tel: +44 145 354 5222
Email: info@alpha-ess.com
Add: Drake house, Long street, Dursley, gl11 4hh UK

Alpha ESS Italy S.r.l.

Tel: +39 339 462 4288
Email: info@alpha-ess.it
Add: Via Don Minzoni, 17, Calenzano Firenze 50041 Italy

Alpha ESS USA, Inc.

Tel: +1 408 368 7828
Email: usa@alpha-ess.com
Add: Unit 5 2180 S Ivanhoe St, Denver, CO 80222 USA

Alpha ESS Korea Co., Ltd.

Email: info@alpha-ess.com
Add: 2F, 19-4, Nohyeong 11-gil, Jeju-si, Jeju-do, Republic of Korea