



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)



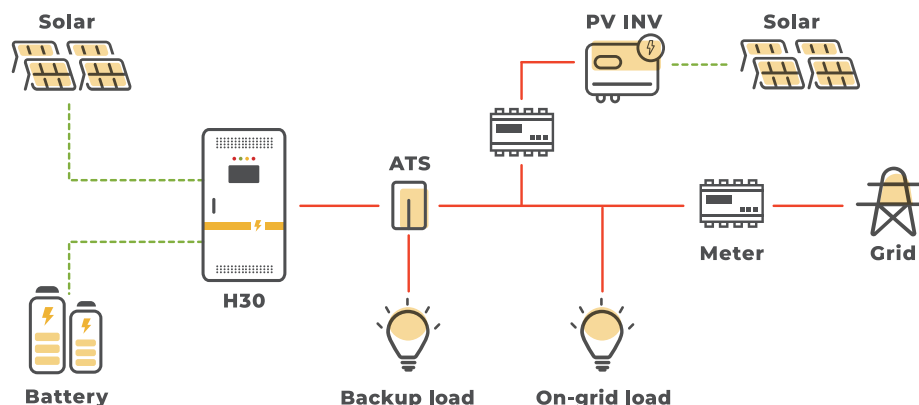
STORION-H29/H30



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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