

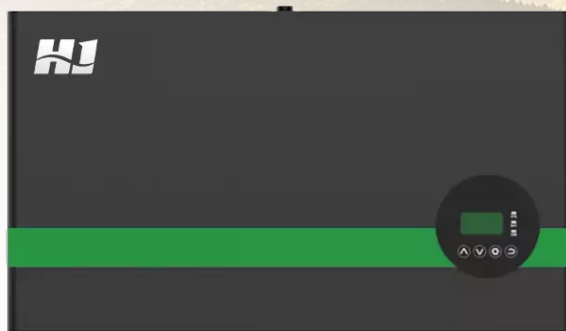
# 10kW Integrated Three-Phase Stackable Home Solar Storage System

Model: HJ-H10-H10/HJ-H15-H10    Power: 10kw/5kwh;10kwh;15kwh

## Summary

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HighJoule 10kW Three-Phase Stackable Home Solar Storage System (HJ-H10-H10(k-5)/HJ-H15-H10(k-6)) supports expansion from 10kWh to 15kWh, with 98.4% high conversion efficiency and <10ms backup switch time. Ideal for home scenarios like garages or balconies, meeting daily electricity needs and emergency backup for households.



*10kW Integrated Three-Phase Stackable Home Solar Storage System (HJ-H10-H10/HJ-H15-H10)*

## Product Features

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### High-Capacity Energy Storage

10kW integrated system with up to 15kWh capacity, LFP (lithium iron phosphate) battery, reliable energy storage, over 6000 cycles at 90% depth of discharge,

ensuring long-lasting performance for home and commercial use.

#### All-Weather Outdoor Compatibility

IP65 protection rating enables the system to operate effectively in harsh outdoor environments with a temperature range of 0°C to 50°C and up to 95% humidity.

#### Modular and Stackable Design

Stackable units for custom installation; scalable to meet higher energy needs. Supports flexible configuration to meet home and commercial needs.

#### Advanced MPPT Technology

Three MPPT trackers with a wide input range (140-950V) optimize solar energy collection and improve energy efficiency even in poor lighting conditions.

#### Ultra-High Efficiency

98.4% peak efficiency and 99.9% MPPT efficiency minimize energy loss, ensure maximum power output, and reduce electricity costs.

#### Remote Monitoring and Control

Supports RS-485, WiFi, 4G and Ethernet, enabling seamless remote monitoring and management through an intuitive EMS platform, and real-time tracking and adjustment of performance.

#### Comprehensive Safety Features

Equipped with multi-layer safety protection, including fire suppression system, switching time of less than 10ms, it can achieve seamless off-grid operation in emergency situations.

#### Flexible Power Integration

Supports 220/380V, 230/400V voltage grid-connected and off-grid configurations, suitable for a variety of home, office, and commercial energy applications.

#### Optimized for Solar

20kW high input capacity, supporting up to 1100V PV input voltage, maximizes the use of solar energy, and is ideal for solar homes and businesses.

#### Fast and Reliable Backup Power

Provides rated 10kVA backup power with surge capacity up to 20kVA, ensuring reliable backup power with switching time of less than 10ms during grid failures.

## Technical Parameters

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<b>Product model</b>	<b>HJ-H10-H10(k-5)</b>	<b>HJ-H15-H10(k-6)</b>
<b>BATTERY PORT</b>		
<b>Bttery Type</b>	<b>Li-on/ Lead-acid</b>	
<b>Battery Voltage Range [V]</b>	<b>90-700</b>	<b>90-700</b>
<b>Max. Charging Current [V]</b>	<b>50</b>	
<b>Max. Discharging Current [V]</b>	<b>50</b>	
<b>INPUT PV</b>		
<b>Max. PV Input Power [kW]</b>	<b>20</b>	
<b>Max. PV Input Voltage [V]</b>	<b>1100</b>	
<b>MPPT Range [V]</b>	<b>140-950</b>	
<b>Startup Voltage [V]</b>	<b>120</b>	
<b>Max. Input Current [A]</b>	<b>16/16/16</b>	
<b>Max. Short Circuit Current [A]</b>	<b>24/24/24</b>	
<b>MPPT Trackers</b>	<b>3</b>	

<b>Strings Per MPPT Tracker</b>	<b>1/1/1</b>
<b>GRID PORT</b>	
<b>Rated Output Power [kVA]</b>	<b>10</b>
<b>Max. Output Current [A]</b>	<b>16.7</b>
<b>Max. Output Apparent Power [kVA]</b>	<b>10</b>
<b>Max. Input Power [kVA]</b>	<b>20</b>
<b>Rated Grid Voltage [Vac]</b>	<b>220/380,230/400,3/N/PE</b>
<b>Grid Voltage Range [Vac]</b>	<b>180-270</b>
<b>Rated Grid Frequency [Hz]</b>	<b>50/60</b>
<b>Power Factor</b>	<b>—0.8~+0.8</b>
<b>THDi</b>	

## Application

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The HighJoule 10kW Integrated Three-Phase Stackable Home Solar Storage System (Models: HJ-H10-H10 and HJ-H15-H10) provides up to 15.9kWh of reliable energy storage for residential use. With LFP batteries offering over 6000 cycles at 90% depth of discharge, it's designed for all-weather use with an IP65 rating, making it ideal for installation in garages, basements, or on exterior walls. The stackable, modular design allows for flexible installation and easy expansion as energy needs grow. Advanced MPPT technology ensures 98.4% peak efficiency, while the system provides 10kVA rated backup power and fast, seamless off-grid switching (

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