



HJ-H16-H08(k-1): Next-Gen Hybrid Stack Home Energy Storage

Model: HJ-H16-H08 Power: 8kw/16kwh

Summary

The HJ-H16-H08(k-1) Hybrid Stack Home Energy Storage system offers a reliable, scalable, and efficient energy solution for homes and small businesses. With dual MPPT technology, self-heating batteries, and IP65 protection, this all-in-one system delivers seamless power backup, even in extreme weather conditions.



HJ-H16-H08(k-1): Next-Gen Hybrid Stack Home Energy Storage (HJ-H16-H08)

Product Features

Quad-Source Fusion Technology

Integrates solar, grid, diesel generator, and batteries with AI-optimized fuel management, extending backup power to 72+ hours during outages - 400% longer than battery-only systems.

Arctic Mode Operation (-25°C)

Self-heating batteries maintain 85% efficiency in extreme cold (-25°C) with IP65 armored housing, outperforming standard systems that fail below -10°C.

Hospital-Grade Power Quality

Delivers ultra-clean sine wave output (THDi<3%) with <10ms grid switching, ensuring zero interruption for medical equipment and sensitive electronics.

Hot-Swap Battery Maintenance

Replace individual 4.096kWh battery packs in 10 minutes without system shutdown, eliminating downtime during service compared to conventional ESS.

Global Compliance Pre-Integration

Features 25 pre-loaded international certifications (VDE, AS/NZS, NRS, OVE) for plug-and-play installation across 30+ countries without retrofit costs.

Technical Parameters

Product Parameters

Product model	HJ-H16-H08(k-1)
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Photovoltaic Parameters

Maximum Input Power [W]	12000
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Maximum Input Voltage [V]	590
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Operating Voltage Range/Rated Voltage [V]	80~500/360
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Maximum Input Current [A]	16/16
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Maximum Short-Circuit Current [A]	20/20
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Number of MPPT	2
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Number of Input String per MPPT	1/1
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AC Parameters (Grid-Connected End)

Rated Output Power (W)	8000
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Maximum Apparent Output Power (VA)	8800
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Maximum Input Power (W)	8800
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Rated Voltage (Vac)	230,L/N/PE
Rated Frequency (Hz)	50/60
Maximum Output Current (A)	34.8
Power Factor Range	~1 (0.8 advance, 0.8 delay, adjustable)

**Total Current Harmonic Distortion (@
Rated Power) (%)**

Application

The HJ-H16-H08(k-1) Hybrid Stack Home Energy Storage System is tailored for residential and small commercial use, featuring a 16.384kWh rated capacity and 4.096kWh modular batteries that enable rapid expansion to meet growing energy requirements. It distinguishes itself with dual MPPT technology to maximize solar energy capture under variable light conditions, can supply up to 9,000VA peak power for demanding loads, has an IP65 protection for resilience in harsh environments, guarantees seamless backup power during outages with a

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