Three-phase hybrid grid energy storage inverter

HJ-IH10-W500T/HJ-IH12-W500T

Product Introduction

This inverter is suitable for medium and large-sized household systems as well as smart switches. It integrates photovoltaic and energy storage control, has built-in EMS intelligent management, and supports multiple battery types. It is equipped with UPS function, seamless switching within 10ms, and compatible with three-phase unbalanced loads. Wide voltage input, high protection level, and support for remote upgrade make power generation more efficient and operation more reassuring.

PV &storage system	Smart switching	Wide voltage input range
Safe and reliable	Smart and simple	High-efficiency

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HJ-IH10-W500T/HJ-IH12-W500T
Technical Specification

Parameter

Model	HJ-IH10-W500T（H-4）	HJ-IH12-W500T（H-5）
Max. DC Input Power (kW)	15	18
Rated DC Voltage (V)	1000	1000
Max. DC Input Voltage (V)	620	620
DC Input Voltage Range (V)	150 - 1000	150 - 1000
MPPT Voltage Range (V)	150 - 850	150 - 850
Full MPPT Voltage Range (V)	500 - 850	500 - 850
Start-up Voltage (V)	160	160
Max. DC Input Current (A)	18.5×2	18.5×2
Max. Short Current (A)	25×2	25×2
No. of MPPT Tracker / Strings	`2/2	`2/2
Battery Nominal Voltage (V)	350	450
Battery Voltage Range (V)	80 - 600	80 - 600
Max. Charge/Discharge Current (A)	30	30
Max. Charge/Discharge Power (kW)	10	12
Charging Curve	3 Stages	3 Stages
Max. AC Output Current (A)	17	21.5
Nominal AC Voltage (V)	3P+N+PE: 3P+PE 230/400	3P+N+PE: 3P+PE 230/400
Nominal AC Frequency (Hz)	50/60	50/60
Nominal Output Power (kW)	10	12
Nominal Output Frequency (Hz))	50/60	50/60
Nominal Output Current (A)	14.5	17.4
Dimensions (W × D × H, mm)	370 × 585.5 × 193mm	370 × 585.5 × 193mm
Weight (kg)	22kg	22kg
Cooling Concept	Intelligent Fan	Intelligent Fan
Operating Temperature Range (℃)	-25 - 60℃	-25 - 60℃
Display & Communication Interfaces	LCD, LED, RS485, CAN, WIFI, GPRS, 4G, SunSpec	

Application Scenarios

Residential Solar Systems: Suitable for households looking to reduce electricity bills and maintain power during outages.
Commercial Office Buildings: Provides reliable energy management for businesses, optimizing solar and battery storage use to reduce operating costs.