

Medium-Sized Hybrid Energy Storage Inverter

HEXP250TS-400-A



Intelligent Switching for Uninterrupted Power

Seamless Grid-to-Off-Grid Transition in Milliseconds: Our Static Transfer Switch (STS) ensures a flawless switch between grid and off-grid modes, guaranteeing zero interruption.

Multiple Power Supply Modes: A triple-layer safeguard with PV priority, grid backup, and battery support ensures constant and reliable power.

Critical Load Protection: Keeps your essential equipment running without a blink during grid failures, with a ultra-fast switching time of <20ms.

High Efficiency & Intelligent Energy Management

Advanced MPPT Technology: Our outdoor-rated MPPT controllers, designed for direct mounting on PV structures, boost energy yield by up to 30%.

AI-Powered Energy Management: Intelligently optimizes power flow from PV, battery, and the grid, achieving a remarkable system efficiency of $\geq 87\%$.

Optimized Multi-Stage Conversion: With DC-side battery cluster direct connection and AC-side isolation transformer, we reduce power conversion losses by 15%.

Comprehensive, Full-Scenario Safety Protection

Electrical Safety: Features DC-side insulation monitoring combined with an AC-side isolation transformer for maximum protection.

Battery Safety: Implements battery cluster-level physical isolation and an early warning system for thermal runaway.

System Safety: A robust design incorporating three-stage fire protection and explosion-proof pressure release mechanisms.

Modular Design for Easy Operation & Maintenance

Pre-assembled for Rapid Deployment: Our pre-integrated battery cabinet solutions are delivered site-ready, significantly reducing installation time.

Smart O&M with Cloud Connectivity: Leverage cloud-based analytics for rapid, second-level fault identification and diagnostics.

Effortless Scalability: Start with a standard 500kW module and expand your capacity seamlessly with parallel connection capabilities.

Model	HEXP250TS-400-A
Dc side	
Voltage range	420-950V
Maximum current	673A
AC side (grid-connected)	
Rated output power	250kW
Maximum output power	275kW
Rated output current	361A
THDi	<3%
System voltage type	3W+N+PE
Voltage range	360VAC~440VAC
Frequency range	45~55Hz/55~65Hz
Power factor	-1 ~ 1
AC side (off-grid)	
Rated output power	250kW
Rated output voltage	400V
Rated output frequency	50/60Hz
THDu	<1% linear, <5% nonlinear
Overload capacity	110% overload for 10 minutes
System	
Maximum efficiency	97.5%
Operating temperature	-30 ~ 55 °C (derating above 40 °C)
Relative humidity	0 ~ 95%RH, no condensation
Dimensions	1200(W)*800(D)*2050(H)mm
Weight	1600kg
IP grade	IP21 (Whole machine)
Noise	<70dB
Display screen	LCD touch
BMS Communication	CAN
EMS Communication	TCP/IP
Other parameters	
Related Certifications	IEC/EN 62109-1/-2, EN 62477-1, IEC/EN 61000-6-2/-6-4, EN 50549-1/-10, NRS 097-2-1:2017ASGC, GB/T 34120, GB/T 34133, CGC-R46103:2018A, PTPIREE REV1.2:2024 TYPE B