TAITEN Integrated Commercial & Industrial Energy Storage System HDC125-255



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TAITEN 125 kW / 255 kWh Liquid-Cooled Integrated C&I Energy Storage System: Embedded PCS · RTE > 90% · AI Thermal Control · Three-Level Safety

【Revenue Optimization】

- Embedded PCS / overall RTE > 90%.
- Liquid cooling temperature control extends system service life beyond 10 years.
- AI heat dissipation control reduces auxiliary power consumption by 33%.

【Flexibility】

- Switches critical loads within 20ms with no interruption.
- Easy installation improves deployment efficiency.
- Seamless side-by-side installation provides greater on-site flexibility.

【Safety】

- Early warning of cell anomalies.
- Multiple overcurrent protection cutoffs minimize losses.
- Early identification of thermal runaway, with fire detection and protective suppression.
- Real-time alarms and troubleshooting.
- Remote upgrades reduce manual O&M costs.

Product Name	TAITEN Integrated Commercial & Industrial Energy Storage System
Model	HDC125-255
DC Side Parameters	
Battery Type	Lithium Iron Phosphate (LFP) Battery
Cell Specification	3.2 V / 314 Ah
Nominal Capacity	257 kWh
Operating Voltage Range	691.2 V ~ 934.4 V
AC Side Parameters (On-Grid)	
Output Power	125 kW
Rated Voltage	380 Vac
Operating Voltage Range	323 Vac ~ 418 Vac
Rated Frequency	50 Hz / 60 Hz
Frequency Range	45 Hz ~ 55 Hz / 55 Hz ~ 65 Hz
Max. Current Harmonics	< 3 %
Power Factor Range	1.0 leading ~ 1.0 lagging
AC Side Parameters (Off-Grid)	
Rated Voltage	400 Vac
Rated Frequency	50 Hz / 60 Hz
Max. Current Harmonics	< 3 %
Unbalanced Load Capacity	100 %
System Parameters	
Dimensions (W × H × D)	1150 × 2450 × 1610 mm
Weight	2900 kg
IP Rating	IP55
Auxiliary Power Supply	Cabinet-Internal (Default) / Cabinet-External (Optional)
Corrosion Protection Rating	C3 (Standard) / C5 (Optional)
Operating Humidity Range	0 % ~ 100 %
Operating Temperature Range	-30 ℃ to 50 ℃ (> 45 ℃ derating)
Max. Operating Altitude	3000 m
Cooling Method	Intelligent water cooling
Noise Level	70 dB
Fire Protection System	Default: Combustible gas detector, smoke detector, heat detector, alarm, FK5112, sprinkler; Optional: aerosol
Communication Interface	Ethernet
Communication Protocol	Modbus TCP
Max. Parallel Quantity (Off-Grid)	10
Certifications	IEC 62619, IEC 63056, IEC 62477, IEC 61000, IEC 62933, UN 38.3
Warranty Period (Note 1)	5 Years

Note 1: For applications subject to specific conditions, please refer to the battery warranty letter.

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