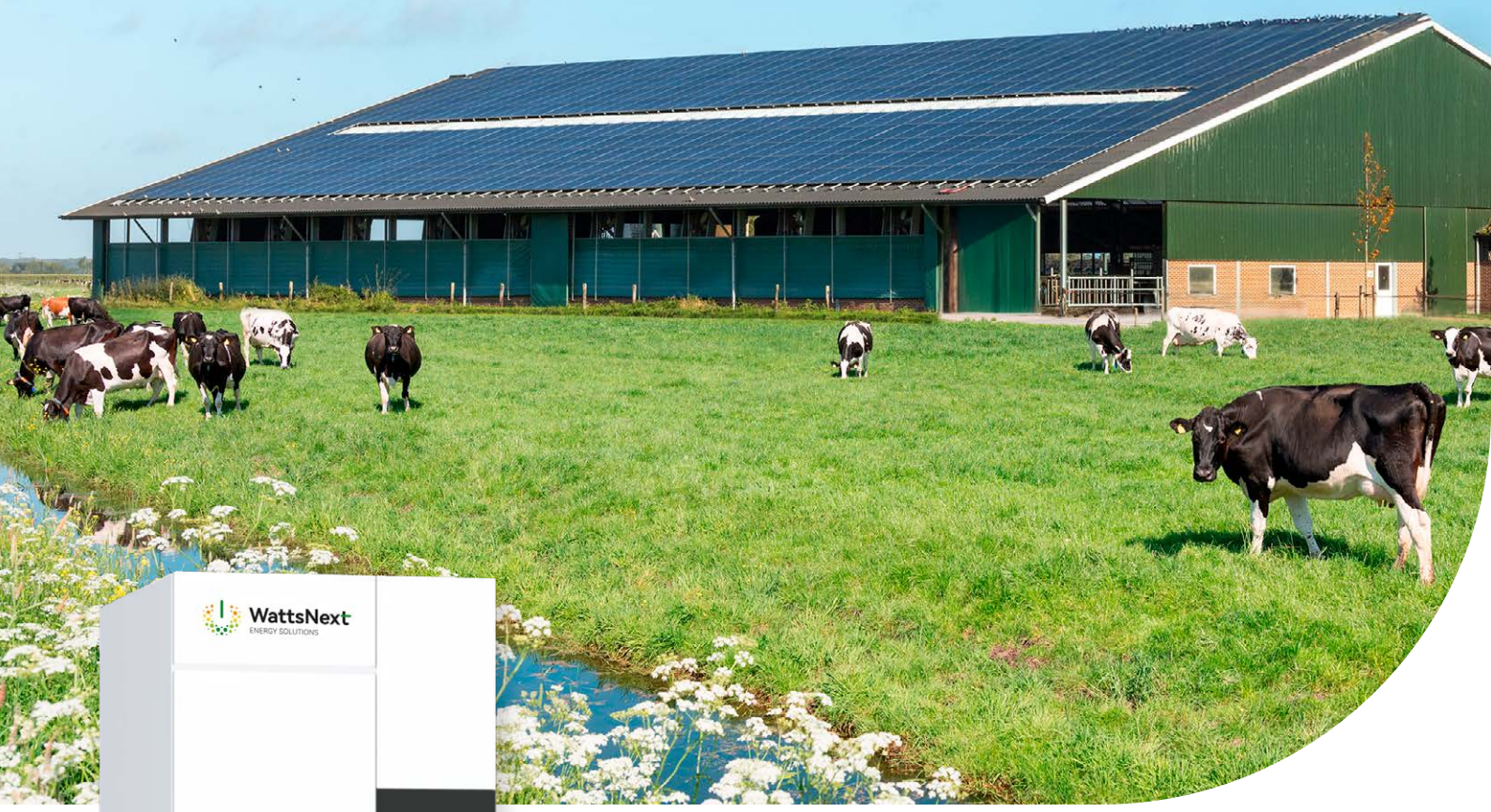
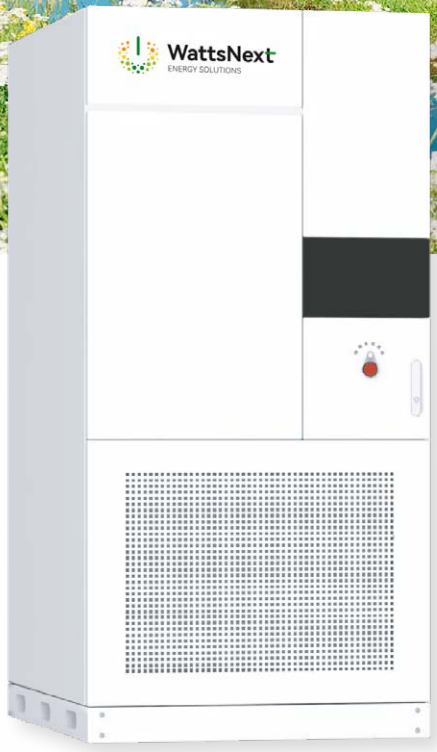
WattsNext
ENERGY SOLUTIONS

Liquid Cooling ESS All-in-one Cabinet

ESS261/125K-A/EU





Advantages and Features

- Three-level topology, conversion efficiency up to 99.0%
- CATL long-life LFP battery cells, cycle life ≥ 8000 times
- Support off-grid operation, providing backup power for critical loads
- Liquid-cooling temperature control design, battery pack temperature difference <3°C, auxiliary power consumption reduced by 30%, extending system lifespan by 2 years+
- Modular expansion, supports up to 20 units in parallel

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Specifications

Product Model	ESS261/125K-A/EU
DC Side	
Cell Type	LFP/314Ah
Rated Energy	261.24kWh
Rated Battery Voltage	832Vdc
Operating Voltage Range	655Vdc~949Vdc
Max. DC Current	177A
Battery Configuration	1P260S
Number of Battery Packs	5
Charge/Discharge C-Rate	≤0.5P
On-grid Side	
Rated Output Power	125kW
Rated Output Voltage	400Vac
Rated Output Current	180A
Rated Output Voltage Range	-20%~15%
Rated Grid Frequency	50Hz/60Hz (±5Hz)
Output Power Factor	-1~+1
Grid Connection Method	3L+N+PE
Adaptation to Grid Types	TT/TN
Topology	Transformerless
Efficiency	
Max. Efficiency	90%
General Data	
Surge Protection	DC Type II / AC Type II
Pollution Level	Class II
Corrosion Protection Rating	C3, C5 (Optional)
Fire Control	Aerosol
Ingress Protection	IP55
Installation Method	Outdoor installation
Battery Cooling Concept	Liquid cooling
Running Temperature	-30°C~+60°C (Derating above 50°C)
Operating Surroundings Humidity	0~95% (No condensation)
Permissible Altitude	4000m (Derating above 2000m)
Cabinet Size (WxHxD)	1120*2403*1400mm
Weight	≤2490kg
Display	LED+Web+APP
Interface	CAN, RS485, Ethernet, 4G
Safety EMC / Standard	EN 62477-1, EN 61000-6-2, EN 61000-6-4
Grid Connection Standard	EN 50549-1:2019+A1 2023, TOR Erzeuger: 2019-12-12, OVE-Richtlinie R 25:2020-03-01, PPDS