

# Anklous Smart261LAK

Intelligent Liquid-Cooled C&I ESS | CIAK261-L-P100/125

## Energy, Refined. Reliability, Engineered.

The Anklous Smart261LAK is a premium, all-in-one liquid-cooled energy storage system purpose-built for commercial and industrial applications. Designed with precision engineering and long-term resilience in mind, Smart261LAK integrates battery modules, power conversion, thermal management, and intelligent control into a single compact cabinet—delivering dependable performance in every operating condition.

## ► Key Features

### True Zero-Condensation Architecture

Eliminates internal cabinet condensation to protect critical components and extend system life in all climates.

### Ultra-High Efficiency Power Conversion

A next-generation silicon carbide (SiC) PCS delivers up to **99%** charge and discharge efficiency for maximum usable energy.

### Up to 10,000 Cycles

Powered by Sunwoda battery cells, Smart261L supports up to **10,000** cycles for predictable performance and low lifetime cost.

### Reinforced Cabinet

Steel thickness is increased by up to **30%** compared with standard designs, delivering superior rigidity and durability.



### Next-Level Anti-Corrosion Protection

An vehicle-grade of Al-Mg-Zn coated steel enclosure with up to **30%** thicker panels delivers superior strength and corrosion resistance.

### Ultra-High Efficiency with SiC PCS

A next-generation silicon carbide (SiC) PCS delivers up to **99%** charge and discharge efficiency, maximizing usable energy.

- Precision-engineered. Climate-resilient. Built to last.

EMPOWERING THE FUTURE. TOGETHER.

## ► Technical Parameters

Category	Name	Parameter	Remarks
DC Parameters	Cell Type	LFP-3.2V-314Ah	Sunwoda
	Battery Rated Capacity	261.248kWh	
	Nominal Voltage	832Vdc	Voltage range: 728~936Vdc
	Charging/Discharging C-rate	≤0.5CP	
	Cooling Method	Intelligent Liquid Cooling	
AC Parameters (Grid-connected)	Rated Power	99kW / 125kW	
	Grid Voltage	400V (-10%~10%)	
	Rated Current	142A / 180A	
	Rated Grid Frequency	50Hz/60Hz	
	Grid Frequency Range	45~55Hz/55~65Hz	
	Total Current Harmonic Distortion	<3% (at rated power)	
	Power Factor	>0.99 (at rated power)	
Power Factor Adjustable Range	-1 (leading) ~1 (lagging)		
AC Parameters (Off-grid)	AC Off-grid Voltage	400V (-5%~5%)	
	AC Off-grid Frequency	50Hz/60Hz	
	Off-grid Output Voltage Distortion	<3% (linear load)	
System Parameters	Cooling Method	Liquid Cooling	
	Fire Protection System	Aerosol + Water-based Fire Protection (optional)	
	Anti-corrosion Grade	C4	
	Protection Level	IP54 (IP55 for battery compartment)	
	Operating Temperature Range	-20°C~+45°C	Derating when >45°C
	Storage Temperature	-20°C~+35°C (≤6 months)/ -20°C~+45°C (≤1 month)	SOC @20%~50%
	Operating Humidity Range	09~5%RH	No condensation
	Installation Method	Outdoor Installation	
	Working Condition	Maximum 2 charges and 2 discharges per day	
	System Communication Interface	Ethernet/RS485	
	External System Communication Protocol	Modbus TCP/IEC104/Modbus RTU	
	Altitude	Within 4000m	Derating when >2000m
	Dimensions (WDH)	1400mm*1400mm*2200mm	
Weight	2500±5%kg		
Certification	Cell	UN38.3, IEC62619, UL1973, UL9540A	
	Battery system	UN38.3, IEC62619, IEC60730, IEC61000	
	Cabinet	UN3480, IEC EN61000-6-2/-4(EMC), IEC62477-1(LVD)	
	PCS	EN/IEC 61000-6-2EN, IEC 61000-6-4, EN/IEC 62477-1, IEC/EN 62109-1/2, EN50549-10, EN 50549-1, EN 50549-2, VDE 4110, VDE 4120, VDE 4105, IEC 61727 IEC 62116, CEI 0-21, CEI 0-16, G 99, RD 1699/413/647 NTS, UNE217002:2020, UNE 217001:2020-10, TOR type A+R25, AS4777.2, NRS097, ENC	