



Areswatt New Energy

AW-GESS-LC5.016MWh



# Liquid-cooled energy storage container

## Product features



### Safe and Reliable

It uses high-density and long-cycle-life lithium iron phosphate batteries for energy storage. The module has an IP66 protection level, liquid cooling, real-time temperature control, and a multi-level Battery Management System (BMS). With a three-level explosion-proof design, it ensures safe and intelligent operation.



### Stable Operation

The integrated thermal management system keeps the temperature difference between the battery cells below 3°C. It has multi-level fire protection, active detection, and effective prevention. The container has an IP54 protection level and a C4 anti-corrosion grade, and it is resistant to adverse external environments.



### High Integration

It adopts a plug-and-play modular design with electrical isolation, making maintenance easy. It can save 30% of the space in a 20-foot container, reducing the installation costs and the debugging time.



### Easy Maintenance

It has an external maintenance design with multi-dimensional analysis of the battery status. It is equipped with an intelligent alarm system and a remote monitoring platform for real-time tracking.



## AW-GESS-LC5.016MWh

System Architecture	12P416S	PACK (1P52S or 1P104S)
Typical Capacity(Ah)	314Ah	CELL
Typical Energy(Mwh)	5.016Mwh	
Nominal Voltage(V)	1331V	
Standard Charging Power	0.5C	
Operating Voltage(V)	1164.8~1497V	
Standard Discharging Power	0.5C	
Standard Charge and Discharge Current (A)	160A	
Charging/Discharging Power	1C/1C	
Recommended SOC (State of Charge)	10%~90%	
Absolute Charging Temperature	0℃~50℃	
Discharging Operating Temperature	-20℃~50℃	
Relative Humidity	5%~90% RH	
Dimensions (mm)	6058*2896*2438	Standard 20ft container
Weight(t)	45t	
System IP Rating	IP54	
Cycle Performance	≥8000 Cycles	25℃±2℃, 0.5C @90%DOD 80%EOL 0.5C @90%DOD 80%EOL
System Efficiency	>99%	25℃±2℃ 0.5C, @95%DOD
Cooling Method	Liquid-cooled	Ex: ethylene glycol
Fire Protection System	Perfluoro hexane and water spray	
Altitude	2000m (>2000m down-conversion used)	
Communication Protocol	CAN/MODBUS/IEC61850/IEC104	



### Technical Support

For more information about operating environment, technical parameters and customized solutions, please consult our technical specialists.