



ADM Apollo Series Smart Li-Ion Batteries

Powering the next generation of energy storage, the ADM Apollo Series Smart Li-ion Batteries are designed for high performance, reliability & intelligent energy management. Built on advanced lithium-ion technology, these batteries deliver superior efficiency, longer life, and seamless integration with modern solar and hybrid systems—making them an ideal choice for homes, businesses & energy storage applications.

As energy demands grow and power reliability becomes critical, lithium-ion batteries have emerged as the preferred solution. With their compact design, fast charging capability, and long service life, the Apollo Series ensures you get consistent, dependable power—day or night.

Why Choose ARC Series Solar Hybrid Inverter?

A lithium battery is made up of multiple cells & each cell has three main parts: an anode (positive terminal), a cathode (negative terminal) & a separator that keeps them apart while allowing ion flow. When cells are connected in series or parallel, they form a battery that delivers the required voltage and capacity.

During discharging (usage), electrons flow from the anode to the cathode through an external circuit, powering the connected load. During charging, this process reverses, & energy is stored back in the battery. In simple terms, a lithium battery works by storing & releasing electrical energy through controlled movement of ions between anode & cathode.

Applications

- Residential Solar Energy Storage
- Hybrid Solar Systems
- Commercial & Industrial Backup
- Telecom & Infrastructure
- Battery Energy Storage Systems (BESS)

Key Features

Long Life Cycle	High Performance Output
Eco-Friendly & Sustainable	Maintenance-Free Operation
High Safety Performance	Wide Operating Temperature Range
Compact & Lightweight Design	Completely Recyclable

Apollo Series Smart Li-Ion Batteries Technical Specification

Parameter	ADM128100ESS	ADM256100ESS	ADM128200ESS	ADM256200ESS
Nominal Voltage (V)	51.1V	25.6	51.1V	25.6
Capacity (Ah)	100		200	
No. of cells in series	4	8	4	8
No. of cells in parallel	1	1	2	2
Total No. of cells	4	8	8	16
Cell Type	Prismatic			
Chemistry	LFP			
Max cut-off voltage (V)	14.4	29.2	14.6	29.2
Min cut-off voltage (V)	11	22	11	22
Charging Voltage (V)	14.4	28	14.4	29
Recommended charging current (A)	30	30	30	10
Maximum charging current (A)	50	40	40	20
Maximum discharging current (A)	100	50	100	20
Cell Discharging Protection (V)	2.75			
Cell Charging Protection (V)	3.65			
Balancing current (mA)	50			
Cycle Life	3000			
Cell under voltage protection	Yes			
Cell over voltage protection	Yes			
Over current protection	Yes			
Short circuit protection	Yes			
Temperature protection	Yes			
Working Temperature (°C)	0-55			
Storage Temperature (°C)	0-45			
Dimension (mm)	275×95×245	TBD		
Weight (Kg)	10Kg	25Kg	30Kg	55Kg
Wire Gauge	—	16 sq.mm	25 sq.mm	—
Backup Duration @160W	—	—	—	1 Day