



# AES CABINET HYBRID INVERTER INTEGRATION

## Compatible with Sol-Ark 30/60K-3P Inverters

Discover Energy Systems' CAB-106 and CAB-210 (AES 210HV) high-voltage outdoor battery cabinets pair seamlessly with the Sol-Ark 30K/60K-3P hybrid inverters, delivering a turnkey energy storage solution ideal for commercial and industrial applications.

### Pre-Engineered Compatibility

The CAB-106 is compatible with Sol-Ark 30K and 60K inverters, and the AES 210HV is fully integrated with the Sol-Ark 60K inverter, ensuring:

- Direct DC coupling with matched voltage ranges. CAB-106 (332 VDC) within the 30K's 160–500 VDC, and CAB-210 (665 VDC) within the 60K's 160–700 VDC.
- The Sol-Ark 60K outputs 277/480V three-phase Wye, the Sol-Ark 30K outputs 208V three-phase Wye, and includes an integrated MID.
- Closed-loop CANBus control via the LYNK II Gateway for real-time SoC, voltage, temperature, and current reporting.
- Prewired DC distribution and fuse protection for up to two inverter inputs. No external DC combiner is required.


 Multifamily  
 Dwellings

 Charging  
 Stations

 Grocery &  
 Convenience Stores

 Banks, Hospitals  
 & Schools

 Industrial  
 Sites

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Cabinet	Nominal Energy Capacity	Usable Energy Capacity	Battery Max. Continuous Power	System Nominal Voltage	System Operating Voltage	Nominal Cell Capacity	Usable Cell Capacity	Max. Continuous Current
<b>CAB-106</b>	106kWh	104kWh	52kW	332.8V	312 - 358.8V	320Ah	314Ah	157 A(C/2)
<b>CAB-160</b>	160kWh	157kWh	79kW	499.2V	468 - 538.2V			
<b>CAB-210</b>	212kWh	209kWh	104kW	665.6 V	624 - 717.6V			

## CABINET + SOL-ARK CONFIGURATIONS



Inverter	Configuration (Inverter : Cabinet)	CAB-106		
		AC Output / Usable Storage / Estimated Runtime		
Sol-Ark 30K-3P-208V	2 : 1		52kW*   104kWh   2HR	
	1 : 1		30kW   104kWh   3.5HR	
	1 : 2		30kW   208kWh   7HR	

\* Curtailed by battery.

Note: Up to 10 Sol-Ark 30K-3P inverters can be paralleled on the AC bus for large-scale systems up to 300 kW / 1+ MWh.

Inverter	Configuration (Inverter : Cabinet)	CAB-106		CAB-160	CAB-210
		AC Output / Usable Storage / Estimated Runtime			
Sol-Ark 60K-3P-480V	2 : 1	52kW*   104kWh   2HR		78kW*   157kWh   2HR	104kW*   209kWh   2HR
	1 : 1	52kW*   104kWh   2HR		60kW   157kWh   2.5HR	60kW   209kWh   3.5HR
	1 : 2	60kW   208kWh   4HR		60kW   314kWh   5HR	60kW   418kWh   7HR

\* Curtailed by battery.

Note: Up to 10 Sol-Ark 60K-3P inverters can be paralleled on the AC bus for large-scale systems up to 600 kW / 2+ MWh.

## CASE STUDY

### Off-Grid Energy Resilience at Springville Foods, PA

A Community Grocery Store Trades Diesel for Clean, Reliable Power with Discover AES 210HV and Sol-Ark.

**Location:** Eastern Lancaster County, Pennsylvania  
**Client:** Springville Foods  
**Installer:** CB Solar, LLC  
**Distributor and Technical Design Support:** Zonna  
**Energy Storage System:** Discover AES 210HV  
**Inverter Platform:** Sol-Ark 60K-3P-480V (x2)  
**PV Array Size:** 75 kW Ground Mount  
**Commissioned:** April 2025



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