



# 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**



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
CAB-106	106kWh	104kWh	52kW	332.8V	312 - 358.8V	320Ah	314Ah	157 A(C/2)
CAB-160	160kWh	157kWh	79kW	499.2V	468 - 538.2V			
CAB-210	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

