

# AES CABINET

## Dynapower Integrated Packages

**Pre-Engineered Microgrid Energy Storage. Bankable. Scalable. Ready.**

Discover Energy Systems' AES Cabinet, paired with Dynapower's MPS-125 Energy Storage Inverter, delivers a fully integrated, pre-engineered energy storage package designed for commercial, industrial, and microgrid applications.

This integrated deployment is:

- Properly engineered to match project voltage, current, and runtime requirements
- Fully interoperable with PCS, EMS, and Microgrid Control (MGC)
- Commissioned with confidence using validated, field-proven configurations

By supporting Dynapower integration, we enable our customers to deploy AES Cabinets at scale with reliable performance, flexible configurations, and technical support.

**As a Dynapower integration partner we bring:**

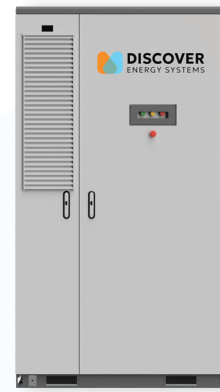
- Field-tested commissioning packages.
- Pre-configured BMS-PCS mappings.
- Custom microgrid design and transfer integration (if required).
- Project sizing, drawings, and site-level controls via EMS or MGC.





**DYNAPOWER  
MPS-125  
PCS**

**Rated Power:** 125 kW / 125 kVA  
**AC Voltage:** 480 VAC, 3-phase, 60 Hz  
**DC Window:** 740–1500 VDC  
**Efficiency:** 98.5% full load / 98.7% peak  
**Key Features:** Islanded operation, Dynamic Transfer™, Black Start, Frequency & Volt-Var Compensation  
**Certifications:** UL 1741 Ed. 3, IEEE 1547/519, CSA 22.2, NFPA 7  
**Compact Design:** Transformer-less, air-cooled, UL 3R/IP54 rated.



**AES  
CABINET**

**Nominal Energy:** 426 kWh (418 kWh usable)  
**Nominal Voltage:** 1331 VDC  
**Round-trip Efficiency:** 94%  
**Thermal Management:** Liquid cooled (chiller/PTC)  
**Certifications:** UL 9540, UL 9540A, UL 1973  
**Safety:** Fire suppression, thermal runaway mitigation, alarms, E-stop, passive deflagration vent  
**Service Life:** Designed for 20 years with easy serviceability



**Feature / Model**

**IntelNeo 530**

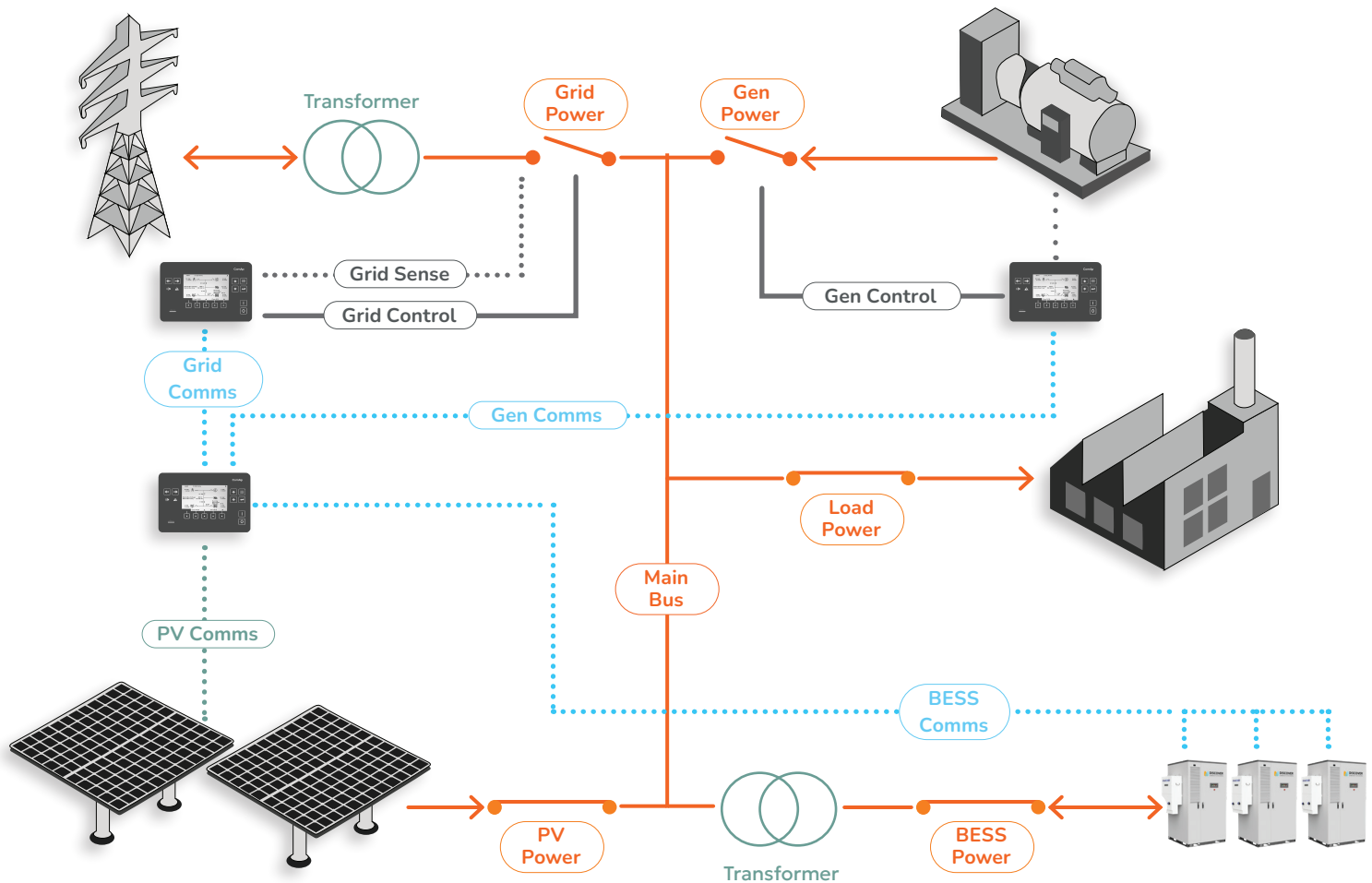
**IntelNeo 5500**

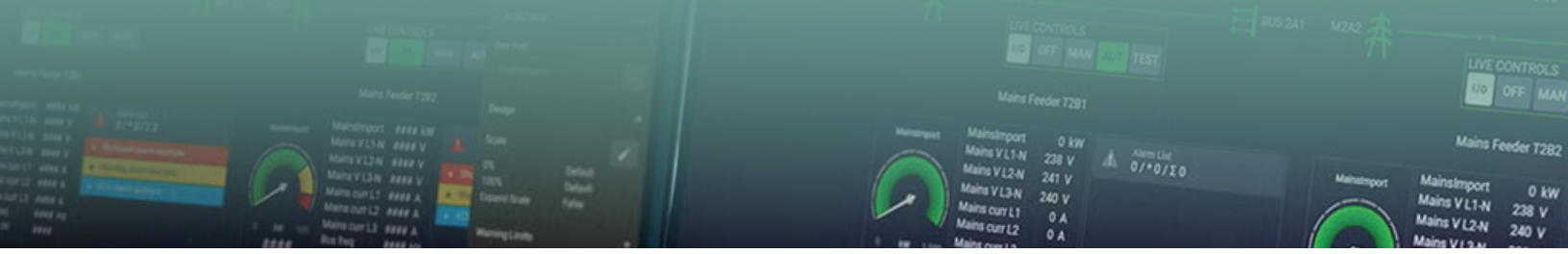
**IntelNeo 6000**

<b>Application Focus</b>	BESS & hybrid projects (small/medium scale)	Advanced hybrid microgrids with PV, BESS, gensets	High-security, complex hybrid & utility-scale microgrids
<b>Power Asset Support</b>	BESS, PV, gensets (basic hybrid integration)	Multi-asset hybrid: PV, BESS, gensets, mains/grid	Large-scale hybrid: PV, BESS, gensets, switchgear, mains/grid
<b>Control Capabilities</b>	Grid-forming / grid-following, basic EMS functions	Advanced EMS: TOU, load sharing, curtailment, dispatch optimization	Advanced EMS + security, redundant control pathways, scalable multi-site
<b>Security</b>	Standard comms (single network)	Standard comms with supervisory integration	Dual networks (internal secured control + external interface) for cyber protection
<b>Scalability</b>	Small to mid-size projects	Mid to large hybrid systems (commercial/industrial)	Utility-scale and high-security critical infrastructure
<b>Communication</b>	Modbus TCP/RTU, CAN	Modbus TCP/RTU, CAN, IEC protocols	Modbus TCP/RTU, CAN, IEC protocols, segregated comms architecture
<b>Typical Use Cases</b>	Off-grid C&I sites, smaller BESS projects	C&I microgrids, hybrid renewables with genset backup	Defense, critical infrastructure, utility-grade microgrids

## Pre-Engineered Energy System • Scalable Power Block • Integrated Micro-grid Solution

Part Number	Description	480V Power	kWh
CAB426-1/DYN-MPS-125-1/480VAC	Dynapower MPS-125 480V Δ   418kWh Discover CAB-426   ComAp MGC IN530	125 kW	418 kWh
CAB426-2/DYN-MPS-125-2/480VAC	Dynapower MPS-125 480V Δ   418kWh Discover CAB-426   ComAp MGC IN530	250 kW	836 kWh
CAB426-3/DYN-MPS-125-3/480VAC	Dynapower MPS-125 480V Δ   418kWh Discover CAB-426   ComAp MGC IN5500 Hybrid	375 kW	1254 kWh
CAB426-4/DYN-MPS-125-1/480VAC	Dynapower MPS-125 480V Δ   418kWh Discover CAB-426   ComAp MGC IN5500 Hybrid	500 kW	1672 kWh
CAB426-5/DYN-MPS-125-5/480VAC	Dynapower MPS-125 480V Δ   418kWh Discover CAB-426   ComAp MGC IN5500 Hybrid	625 kW	2090 kWh
CAB426-6/DYN-MPS-125-6/480VAC	Dynapower MPS-125 480V Δ   418kWh Discover CAB-426   ComAp MGC IN6000 Hybrid	750 kW	2508 kWh
CAB426-7/DYN-MPS-125-7/480VAC	Dynapower MPS-125 480V Δ   418kWh Discover CAB-426   ComAp MGC IN6000 Hybrid	875 kW	2926 kWh
CAB426-8/DYN-MPS-125-8/480VAC	Dynapower MPS-125 480V Δ   418kWh Discover CAB-426   ComAp MGC IN6000 Hybrid	1000 kW	3344 kWh





## WHY DYNAPOWER

Dynapower delivers high-performance, field-ready energy conversion systems designed for seamless integration with storage, renewables, and critical load environments. Their modular, transformer-less inverters enable smooth commissioning and reliable operation under demanding conditions.

- Parallel-ready for scalable installations
- Fast, seamless transitions to backup power ensures automatic, grid-loss detection and swift switch-over to stand-alone mode.
- Robust control modes and protections built-in supports islanded operation, black start, frequency and voltage/VAR compensation.

## WHY ComAp

ComAp delivers intelligent control solutions that combine robust hardware, pre-programmed firmware, and intuitive software to simplify complex energy systems. Their controllers are modular, and integration-ready, making it easy to manage gensets, renewables, batteries, and grid connections.

- Supports scalability for multi-BESS and multi-PCS projects.
- Simplifies commissioning with a pre-engineered control layer.
- Ensures reliable, bankable performance for critical applications.

### Ready-to-Deploy Energy Storage Solution

Reduced project risk • Faster commissioning • Scalable architecture  
Certified safety & compliance • Trusted, bankable brands

## WHY CHOOSE THIS SOLUTION

### Integration, Not Just Components

- Pre-validated BMS-PCS communication.
- Seamless PCS paralleling via ComAp microgrid control.
- One SKU, one commissioning pathway.
- Coordinated control of renewables, gensets, and BESS.



### Applications & Value Creation

- Peak shaving, demand charge reduction & TOU shift
- Resiliency, backup power & critical infrastructure support
- Renewable integration, self-consumption, EV charging & heavy infrastructure.



### Proven Technology

With a history of bankable deployments, Discover integrates Dynapower's MPS-125 for unmatched modularity, serviceability, and compliance in grid-tied, islanded, and hybrid environments.

- Black-start and VSG-capable systems
- High-throughput cabinet-based storage
- Fully modular, scalable designs from 125 kW to multi-MW