# GSL-CESS-125K232 (US)

GSL ENERGY
Much More Than Grade A


It's able to provide customized power system solutions that optimize energy consumption, create economic benefits, and save energy and carbon.
It can also be used for off grid or grid connected optical storage integrated scenes to build microgrid systems.
Meet the short-term and long-term AC and DC distribution needs of users.

## 01 INPUT & OUPUT

DC INPUT | AC INPUT | DC OUTPUT | AC OUTPUT

## 02 Function

- Valley filling
- Peak shaving
- Emergency power reserve
- Load optimization control
- Short-term power regulation
- Short-circuits distributed-power trading
- Transformer capacity increase
- Interconnection for transformer areas

## 03 Scenes

Factories | Shopping malls | Residential areas | Hospitals | Other locations

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| | | |
|---|---|---|
| **Battery Side** | Battery Type | LFP280Ah |
| | Cells series & parallel | 260S1P(5*52S1P) |
| | Battery Rated Voltage | 832V |
| | Voltage Range | 728~936V |
| | Battery Rated Energy | 232.9kWh |
| | Cooling Method | Liquid Cooling |
| **AC Side** | Rated Output Power | 125kW |
| | Output Power Current | 150A |
| | Rated Grid Voltage | AC480V |
| | AC Access method | 3P 3W+PE or 3P 3W+N+PE |
| | Grid Frequency Range | 50Hz/60Hz |
| | THDi | ≤3%( Full load) |
| | Power Factor | -1 leading to+1 lagging |
| **System Parameter** | Maximum PCS Converter Efficiency | 98.6% |
| | Configuration | MPPT (Optional)、STS(Optional)、PCS |
| | Charge/Discharge Rate | ≤0.5P (140A) |
| | Cooling Method | Liquid Cooling |
| | Operating Temperature | -30 ~ +60℃ |
| | Relative Humidity | 0%-95% (no condensation) |
| | Altitude | 4000m (>2000m derating) |
| | Isolation mode | Industrial Transformer Isolation |
| | IP Level | IP54 |
| | Cycle Numbers | 8500@25℃ 0.5C/0.5C,90%DOD，80%EOL |
| | Communication Interface | CAN/Ethernet /485 |
| | Display | LCD |
| | Noise | <65dB (1m away from the horizontal position of the device) |

## Standards and Certifications

IEC/EN62619, IEC/EN60730, UN38.3, UN3480, IEC/EN62477, IEC/EN61000, IEC/UL60730, GB/T36276

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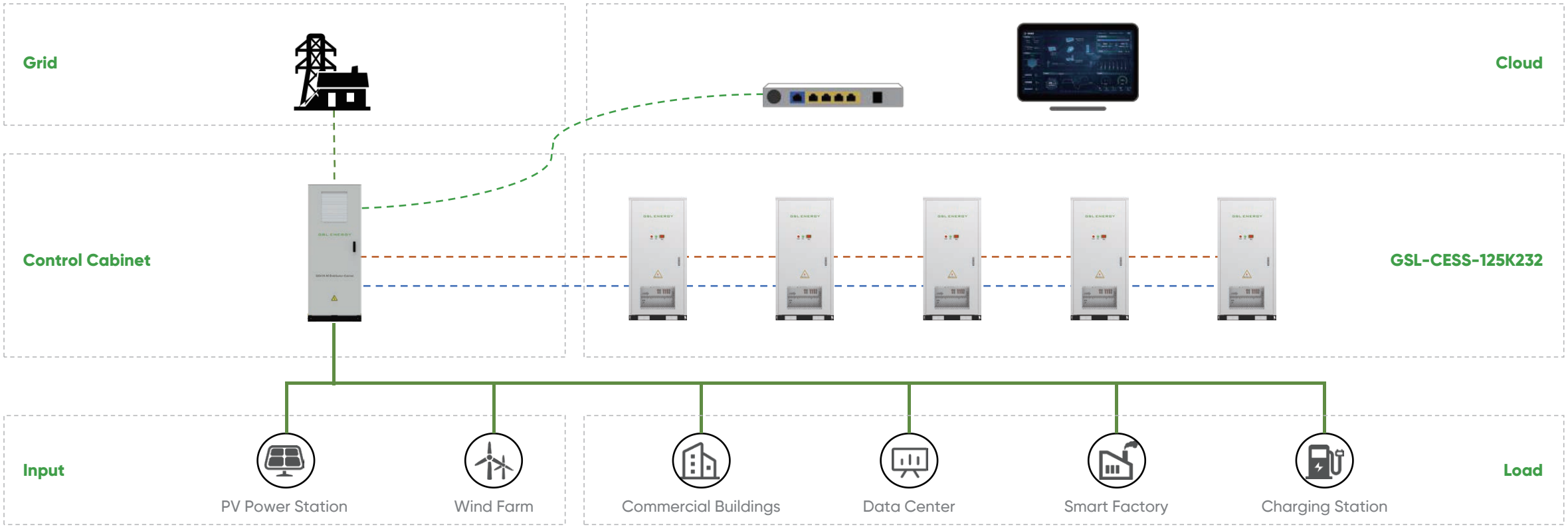


**Typical application scenarios/Configurations**

| NO. | Scenarios | Rate | Energy | Configuration |
|---|---|---|---|---|
| 1 | C&I | 0.5P | 232.9kWh | 1*GSL-CESS-125K232 |
| 2 | C&I | 0.5P | 465.8kWh~1164.5kWh | 2~5*GSL-CESS-125K232 + 1*AC combiner cabinet |

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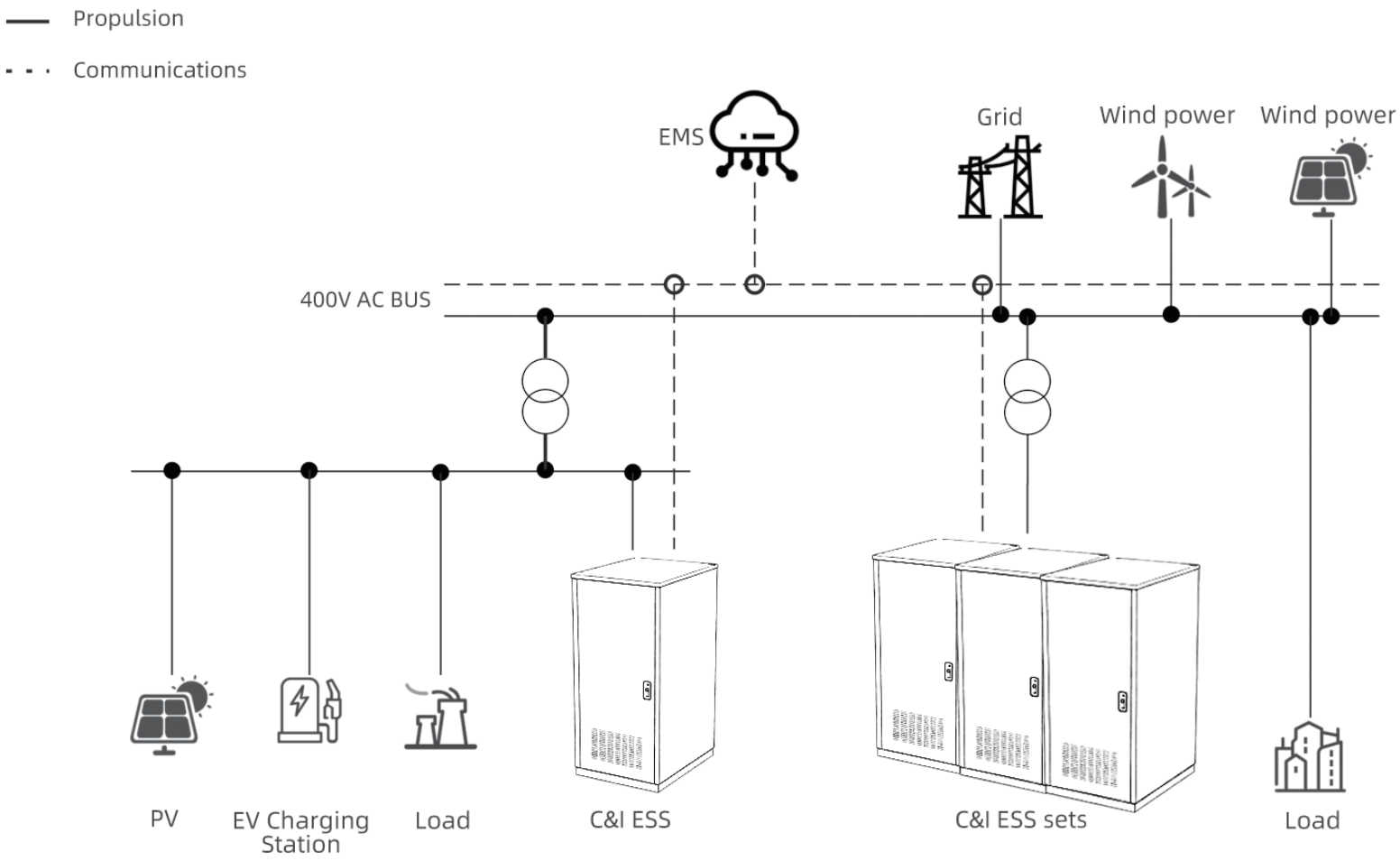
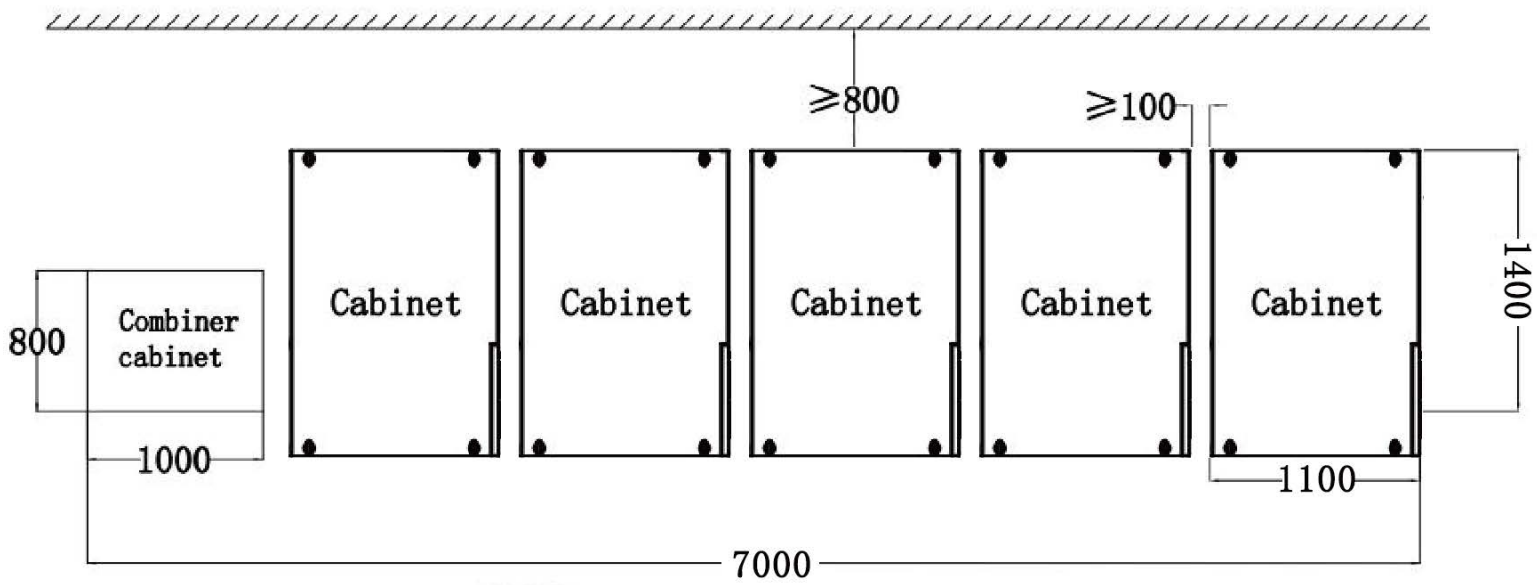
## System Diagram



## Typical application scenarios/configurations, and site layout

① When more than 3 cabinets are connected in parallel, it is necessary to consider whether to configure an AC combiner cabinet;

② The following diagram shows the spatial layout of 5 cabinets and 1 AC combiner cabinet.




Unit： mm