

### PRODUCT OVERVIEW

The EV-VC HV Series is a turnkey commercial energy storage solution. Includes PCS and batteries. Plug and play design with flexible deployment according to site layout.

### FEATURES

- Rack level lockable disconnect.
- Short circuit protection.
- Fire detection and suppression.
- Water-based suppression system (optional).
- Intrusion detection system.
- System controller.

### APPLICATIONS

- Emergency power supply.
- Commercial backup storage.
- Data storage/UPS backup systems.
- Off-grid power storage.
- Solar power storage.



### Product Description

| PART#           | DESCRIPTION              | VOLTAGE | CAPACITY   | CONFIGURATION | GRID VOLTAGE |
|-----------------|--------------------------|---------|------------|---------------|--------------|
| EV-VC860U375HV  | 860kWh High Voltage ESS  | 1024V   | 860.16kWh  | 320S3P        | 480V         |
| EV-VC1147U375HV | 1147kWh High Voltage ESS | 1024V   | 1146.88kWh | 320S4P        | 480V         |
| EV-VC1147U500HV | 1147kWh High Voltage ESS | 1024V   | 1146.88kWh | 320S4P        | 480V         |

## Specifications

| MODEL#                         | EV-VC860U375HV                                                             | EV-VC1147U375HV | EV-VC1147U500HV |
|--------------------------------|----------------------------------------------------------------------------|-----------------|-----------------|
| SYSTEM INFORMATION             |                                                                            |                 |                 |
| Nominal AC Power               | 375kW                                                                      |                 | 500kW           |
| Nameplate Capacity             | 860.16kWh                                                                  | 1146.88kWh      | 1146.88kWh      |
| BATTERY INFORMATION            |                                                                            |                 |                 |
| Battery Chemistry              | LFP                                                                        |                 |                 |
| Capacity                       | 280Ah                                                                      |                 |                 |
| Configuration                  | 320S3P                                                                     | 320S4P          | 320S4P          |
| Nominal Voltage                | 1024V                                                                      |                 |                 |
| Voltage Range                  | 896~1152V                                                                  |                 |                 |
| INVERTER INFORMATION           |                                                                            |                 |                 |
| Max AC Power                   | 375kW                                                                      |                 | 500kW           |
| Nominal Grid/Islanding Voltage | 480V                                                                       |                 |                 |
| Grid Voltage Range             | 422.4~528V                                                                 |                 |                 |
| Power Factor                   | -1 to 1, continuously adjustable                                           |                 |                 |
| Nomina Grid Frequency          | 60Hz                                                                       |                 |                 |
| Isolation                      | Transformerless                                                            |                 |                 |
| WORKING CONDITIONS             |                                                                            |                 |                 |
| Degree of Protection           | NEMA 3R/IP54                                                               |                 |                 |
| Noise Emission                 | <72dB@1m                                                                   |                 |                 |
| Operating Temperature Range    | -22°F ~ 113°F / -30°C ~ 45°C                                               |                 |                 |
| Relative Humidity              | 0` 95% (No condensing)                                                     |                 |                 |
| Max Working Altitude           | 6500ft / 2000m                                                             |                 |                 |
| GENERAL INFORMATION            |                                                                            |                 |                 |
| Dimensions – WxHxD (cm)        | 7735x2500x1613                                                             | 9350x2500x1613  | 9980x2500x1613  |
| Weight                         | 13690kg                                                                    | 17690kg         | 17920kg         |
| Battery Cabinet Cooling Method | HVAC                                                                       |                 |                 |
| PCS Cabinet Cooling Method     | Forced air cooling with replaceable fan module                             |                 |                 |
| Fire Suppression System        | Aerosol                                                                    |                 |                 |
| Communication Protocol         | Modbus TC/IP                                                               |                 |                 |
| Certification                  | UL1741, UL1741 SB, UL1741 CRD, IEEE 1547, UL1973, UL9540A, UL9540(pending) |                 |                 |