

# Air-cooled Hybrid Cabinet

## ECO-B100/120WP-2H

### Brief

The ECO-B100/120WP-2H series is a professional PV-plus ESS solution, designed on ESS integration and digital monitoring technologies. The cabinet integrates components such as lithium battery, HVAC, fire suppression system (FSS), and EMS. With compact structure, it enables easy installation and flexible capacity expansion. Paired with hybrid inverter, the ESS supports multiple work modes and various operation strategies.



### Features



#### Economical and Efficient

RTE up to 90%, DOD up to 100%.



#### Safe & Reliable

IP55, optimized ventilation design, temperature difference within 6°C.



#### Compact & Convenient

0.96m<sup>2</sup> footprint, easy to transport and install.



#### Expandable & Modular

Easy modular design supports parallel connection for convenient system expansion.



#### Versatile

Support multiple brands of hybrid inverter, with higher selectivity.



#### PV pluggable

Support PV connection, with higher integration.



#### Self-developed

LFP314Ah battery cell system integration, leading cost advantage, 3S fusion.



#### Easy O&M

Support multiple ways of operation and maintenance, including onsite, cloud.



### Specifications

| Battery Cabinet            | ECO-B100WP-2H                                              |            | ECO-B120WP-2H        |
|----------------------------|------------------------------------------------------------|------------|----------------------|
| Cell Type                  | LFP / 314Ah                                                |            | LFP / 314Ah          |
| Pack Configuration         | 20.096 kWh / 1P20S                                         |            | 20.096 kWh / 1P20S   |
| System Configuration       | 100.48 kWh / 1P100S                                        |            | 120.576 kWh / 1P120S |
| Rated DC Voltage           | 320 V                                                      |            | 384 V                |
| DC Voltage Range           | 280 ~ 360 V                                                |            | 336 ~ 432 V          |
| Max. Charge/Discharge Rate | 0.5 P                                                      |            |                      |
| Max. Depth of Discharge    | 100% (25 ± 2°C)                                            |            |                      |
| Cycle Life                 | ≥ 8,000 cycles                                             |            |                      |
| PV Input                   |                                                            |            |                      |
| Max. input power           | 60kW                                                       | 80kW       | 100kW                |
| PV Votage Range            | 150 ~ 850V                                                 | 150 ~ 850V | 150 ~ 850V           |
| MPPT                       | 3                                                          | 4          | 4                    |
| Max. input Current         | 40A*3                                                      | 40A*4      | 40A*4                |
| AC Side                    |                                                            |            |                      |
| Rated Output Power         | 30kW                                                       | 40kW       | 50kW                 |
| Rated AC Voltage           | 400V                                                       |            |                      |
| AC Voltage Range           | ±15%                                                       |            |                      |
| Grid Type                  | 3W+N+PE                                                    |            |                      |
| Rated Frequency            | 50Hz/60Hz                                                  |            |                      |
| Power Factor               | 0.99/ -0.8 ~ +0.8                                          |            |                      |
| THDi                       | ≤3%                                                        |            |                      |
| DC Ratio                   | <0.5% Ipn                                                  |            |                      |
| General                    |                                                            |            |                      |
| Max. Round Trip Efficiency | 90%                                                        |            |                      |
| Communication              | Modbus TCP/IP                                              |            |                      |
| Fire Suppression System    | Aerosol                                                    |            |                      |
| Ingress Rating             | IP55                                                       |            |                      |
| Cooling                    | Air cooling                                                |            |                      |
| Operating Temperature      | -25°C~55°C (Derating after 45°C)                           |            |                      |
| Anticorrosion Rating       | C4 (C5 optional)                                           |            |                      |
| Humidity                   | 0~95% RH (non-condensing)                                  |            |                      |
| Altitude                   | 3000m (Derating above 2000m)                               |            |                      |
| Dimensions (W*D*H)         | 800*1,200*2,100 mm                                         |            |                      |
| Weight                     | 1200 kg                                                    |            |                      |
| Safety/EMC                 | UN38.3, IEC62619, IEC63056, IEC62477-1, IEC61000-6-2/4     |            |                      |
| Grid code                  | EN50549-1/-10, EN50549-2/-10, G99, VDE4105, NRS097, C10/11 |            |                      |