ASTORIOS

per aspera ad astra

Battery Energy Storage System (BESS)

Commercial & Industrial Series

CAPACITY

5.7 / 8.1 / 11.5 kWh Modular Expandable to MWhs

FULL-TIME MONITORING

Advanced monitoring system keeps a vigilant eye on your operations, providing real-time insights and alerts to keep you informed at all times. Proactive monitoring detects and addresses any anomalies swiftly, minimizing downtime and maximizing efficiency.

RELIABLE BACKUP

Safeguards your critical infrastructure and systems to maintain operations when you need it the most. Stay prepared and confident with uninterrupted power supply in facing any challenges.

DEMAND CHARGE MANAGEMENT

Substantially reduces energy bills by leveraging advanced technology to optimize your energy usage. Experience greater control over your expenses with this solution.

OFF-GRID ABILITY

Stores excess energy for use whenever you need it, providing independent electricity supply. Optimal solution to power remote locations.

EFFECTIVE PEAK SHAVING

Reduces peak loads during periods of high electricity demand by discharging stored energy. Optimizes electricity costs and enhances overall grid reliability.

OPTIMIZED LOAD SHIFTING

Mitigates peak demands and enhances grid stability intelligently shifting loads. Boosts your energy efficiency by optimizing usage and minimizing costs.

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SYSTEM SPECIFICATIONS

Nominal AC Power	250 kW	500 kW
Max. AC Power	275 kW	550 kW
Battery Chemistry	LFP (LiFePO4)	LFP (LiFePO4)
Application Environment	Indoor (Rack) / Outdoor (Container)	Indoor (Rack) / Outdoor (Container)

INVERTER SPECIFICATIONS

Max. AC Current	397 A	882 A
Nominal AC Voltage	400V (3-Phase+N+PE)	380V (3-Phase 3 Wire)
AC Voltage Range	340 ~ 460V	342 ~ 418 V
Rated Frequency	50 / 60 Hz	50 / 60 Hz
Power Factor Range	0.8~1 Leading or Lagging	0.8~1 Leading or Lagging
Battery Voltage Range	250 ~ 520V	600 ~ 900V
Max. Charging/Discharging Current	550 A	873 A
Max. Charging/Discharging Power	250kW	500 kW
Backup	UPS (With STS Module)	UPS (With STS Module)
Dimensions (W x D x H)	1200 x 800 x 2160 mm	1100 x 800 x 2160 mm
Weight	1280 kg	600 kg

CERTIFICATES

IEC62477, IEC61000	IEC62477, IEC61000, EN50549, AS4777, G99

BATTERY SPECIFICATIONS

Module Nominal Voltage	51.2 V	38.4 V	48 V
Module Weight	65 kg	62 kg	112 kg
Cycle Life	≥ 6000	≥ 6000	≥ 6000
Module Capacity	5.7 kWh	8.1 kWh	11.5 kWh
Operating Temperature Range	-10 °C ~ 50 °C***	-10 °C ~ 50 °C***	-10 °C ~ 50 °C***
Module Dimension (W x D x H)	491 x 611 x 160 mm*	326 x 589 x 232 mm*	590 x 677 x 695 mm*
Max. Charging/Discharging Current	112 A	105 A	120 A

CONTROL BOX SPECIFICATIONS

DC Voltage Range	200-900 V	200-900 V	200-900 V
Nominal Output Current	112 A	105 A	120 A
Modules Connection	6-13 in series in one cluster	7-20 in series in one cluster	6-16 in series in one cluster
Clusters Connection	Max. 20 clusters in parallel	Max. 20 clusters in parallel	Max. 20 clusters in parallel

***When the temperture is below 0 °C or above 40 °C, the performance will be limited.
**TOP BMU required with more than one cluster.
*Including hangers and handles.

COBALT FREE

10 YEARS
Performance Guarantee

3 YEARS
Product Warranty

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