

ASTORIOS

per aspera ad astra



Battery Energy Storage System (BESS)

Commercial & Industrial Series

CAPACITY

6.9 / 8.1 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.



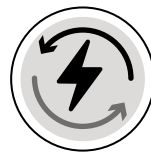
DEMAND CHARGE MANAGEMENT

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



EFFECTIVE PEAK SHAVING

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



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.



OFF-GRID ABILITY

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



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 Nominal AC Voltage	397 A	836 A
Grid Voltage Range	340 ~ 460 V, 3L / N / PE	340 ~ 460 V, 3L / PE
Rated Frequency	50 / 60 Hz	50 / 60 Hz
AC PF	Listed: 0.8~1 Leading or Lagging Actual: 0.1~1 Leading or Lagging	Listed: 0.8~1 Leading or Lagging Actual: 0.1~1 Leading or Lagging
Battery Voltage Range	600 ~ 900 V	600 ~ 900 V
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, IEC61727, IEC62116, EN62109, EN50549, AS4777, G99
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BATTERY SPECIFICATIONS

Module Nominal Voltage	38.4 V	38.4 V
Module Weight	64 kg	62 kg
Cycle Life	80% EOL with 6000@1C 25°C	80% EOL with 6000@0.5C 25°C
Rated Capacity	6.912 kWh	8.064 kWh
Operating Temperature Range	-10 °C ~ 50 °C***	-10 °C ~ 50 °C***
Module Dimensions (W x D x H)	326 x 654 x 250 mm*	326 x 560 x 222 mm*
Max. Charging/Discharging Current	180 A	105 A

CONTROL BOX SPECIFICATIONS

DC Voltage	900 V	900 V
Nominal Output Current	180 A	105 A
Modules Connection	17~20 in series in one cluster	17~20 in series in one cluster
Clusters Connection	Max. 10 clusters in parallel	Max. 10 clusters in parallel

***When the temperature 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



ASTORIOS Holding Inc.
16192 Coastal Highway, Lewes
Delaware 19958, USA
info@astorios.com

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