COMMERCIAL ENERGY STORAGE SYSTEM
125kW/330kWh to 500kW/1.3MWh

Property owners who are currently paying excessive electrical demand charges should consider the benefits of owning and operating a commercial Adara Power Energy Storage System. Backed by 10 year warranties from both the inverter and the energy storage stacks, the system can be used to significantly reduce the amount of energy drawn from the grid during peak load periods/events, maximize the benefits of operating large scale solar installations, while increasing consumption of on-site energy. The system qualifies for the 30% Federal Investment Tax Credit and California buyers can also apply for the state Self-Generation Incentive Program (SGIP).

SMOOTH SOLAR ENERGY
Store energy during early morning and low usage days and feed it back into your building when it is needed to improve power quality and reduce the intermittent load on the grid.

ECONOMIC ENERGY SAVINGS
Charge during non-peak hours and save by peak-shifting excess solar into the evening. Take advantage of time of use rates by consuming your own energy first.

BENEFITS

✔ ON-DEMAND SOLAR POWER
✔ FLEXIBLE ENERGY STORAGE
✔ DEMAND RESPONSE

✔ PEAKING-SHIFTING
✔ INTELLIGENT BATTERY MANAGEMENT
✔ REAL-TIME DATA PERFORMANCE

✔ INTEGRATION FOR GRID SERVICES
✔ INVERTERS SCALABLE TO 500kWh
✔ ENERGY STORAGE SCALABLE TO INVERTER
COMMERCIAL ESS SPECIFICATIONS

Nominal Energy: 110.908 kWh
Voltage Range: 714~999.6 Vdc (Nominal 880.6 Vdc)
Nameplate Power:
- Charging: 33 kW
- Discharging: 33 kW
Maximum Power:
- Charging: 110 kW (1CP)
- Discharging: 110 kW (1CP)
Number of Battery Modules per Rack: 17ea (Series)
Ingress Protection Rating: NEMA3R / IP55
Certifications:

DELTA POWER CONDITIONING SYSTEM

Delta’s Power Conditioning System (PCS) is a bi-directional conversion system that converts power between energy storage and grid, along with energy and grid power quality management features. It supports demand charge management by peak shaving, enables load shifting for time-of-use savings, and provides real power and reactive power compensation to improve power quality.

- Rated Power: 125kW
- Rated Current: 150Arms
- Grid-Tie: 480Vac, 3-phase, 3-wire
- Efficiency: Peak 97.8%, CEC 97.6%
- Power Density: 150W/I, 410W/kg
- Standby Loss: NEMA3R / IP55
- Scalability: Up to 4 units, 500kW
- Response Time: <40ms
- Ingress Protection Rating: NEMA 3/ IP54
- Connections: Integrated AC and DC disconnects
- Certifications: UL1741

iC3 CONTROL PLATFORM SPECIFICATIONS

The Adara iC3 Platform intelligently integrates battery and inverter controls with cloud-based software and a robust IoT connectivity solution.

At the heart of the iC3 Platform is the Adara iC3 Controller – an intelligent hardware device that ensures battery life and performance is optimized relative to a facility’s electrical load demands. The iC3 controller is based on Adara’s automotive battery management semiconductor and controls system heritage, and is designed for wide temperature range, robust performance and cost effectiveness.

Adara’s iC3 Cloud solution leverages an Amazon Web Services infrastructure to dynamically scale processing and data storage as its fleet of energy storage systems continues to expand and as historical data grows. The Adara iC3 Cloud monitors commercial energy storage installations in order to provide near real-time data on battery and inverter performance, as well as building load. Building owners, facility managers, and physical plant engineers can view reports, track detailed performance data, and set alerts.

The Adara iC3 Connectivity solution includes device-to-cloud and a set of application programming interfaces (APIs) to enable integration to higher-level building energy management systems and utilities for grid services. The device to cloud layer includes standard communications interfaces include Ethernet LAN0/100 and cellular connectivity.

Benefits:
- 3G Cellular Communications
- Cloud-based Data Repository
- Secure Connection
- PCS Communications Interface to Remote Program PCS
Our partners and certified installers provide fully integrated Commercial Energy Storage Systems to support multiple use cases, such as demand charge reduction, demand response, peak-shifting and emergency back-up power leading to a cleaner, more resilient grid. Pre-sale assistance includes electrical bill analysis, system design support, and installation assistance for initial orders and delivery.

### ABOUT ADARA POWER

Founded in 2013, Adara Power is committed to providing safe, reliable, intelligent, and connected solar energy storage for commercial and residential renewable energy. Adara Power’s Energy Storage Solutions are designed to support consumer self-consumption and enable a resilient, renewable energy grid in order to power a cleaner, sustainable planet. For more information, visit www.adarapower.com and follow us on Twitter: @adarapower.