# Container Storage System

In order to reduce the production losses caused by power outages in summer, Megarevo has launched 20 foot high-energy-density ESS. The DC side consists of 8*138kWh lithium battery energy units, and the AC side uses MEGA series PCS, through the EMS operation strategy, interacts with the grid in a friendly way, and provides power support for customers during power limited period.

## > KEY STRENGTHS

### Friendly and Flexible
> Standardized design, easy for capacity expansion, easy for maintenance.
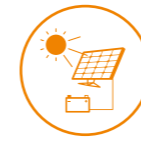> Independent air flow design for high reliability.

### Safe and Reliable
> Support battery management system and comprehensive thermal management.
> Realize the fault classification protection algorithm.

### Abundant Configuration
> All kinds of power configuration for different projects.
> Integrated monitoring system.

### Intelligent and Efficient
> Support real-time online monitoring of system status.
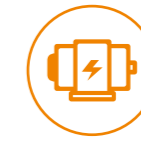> Large capacity, long life, high discharge rate.

## > APPLICATION AREA

PV charging station  |  Wind power storage  |  Combined thermal power FM  |  Grid-side storage

### DC data

| Model | ESSC0500A-1106 |
| --- | --- |
| Battery capacity (MWh) | 1,106 |
| Number of battery racks | 8 |
| BMS communication interface | RS485/CAN |
| DC voltage range (V) | 600~850 |

### AC data

| Model | ESSC0500A-1106 |
| --- | --- |
| Rated AC power(kW) | 500 |
| Max. AC power(kW) | 550 |
| Rated AC current(A) | 722 |
| Max. AC current(A) | 800 |
| DC current component | <0.5% |
| THDi | <3% (Rated power) |
| Rated grid voltage(V) | 400 |
| Allowable grid voltage range(V) | 320~460 |
| Rated grid frequency(Hz) | 50/60 |
| Allowable grid frequency range | 45~55/55~65 |
| Power factor | 1lagging-1leading |
| Isolation method | No isolation |

### General data

| Model | ESSC0500A-1106 |
| --- | --- |
| Ingress protection | IP54 |
| Fire extinguishing system | support |
| Running time (full power) | 2h |
| Operating temperature (°C) | -30～55 |
| Dimension W*D*H (mm) | 12,192*2,438*2,896 |
| Net Weight (T) | 3.5 |
| BMS communication | RS485, CAN |
| EMS communication | RS485, TCP/IP |
| PCS cooling way | Temperature control intelligent air cooling |
| Battery cooling way | Air conditioning cooling |
| Operating altitude | 4,500m(>3,000 Derating) |
| Relative humidity | 0 ~95% non-condensing |