GOSTA Cabinet & Container ESS Products

Cutting Edge Green Energy Solution (Route: Lithium Iron Phosphate)

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Introduction

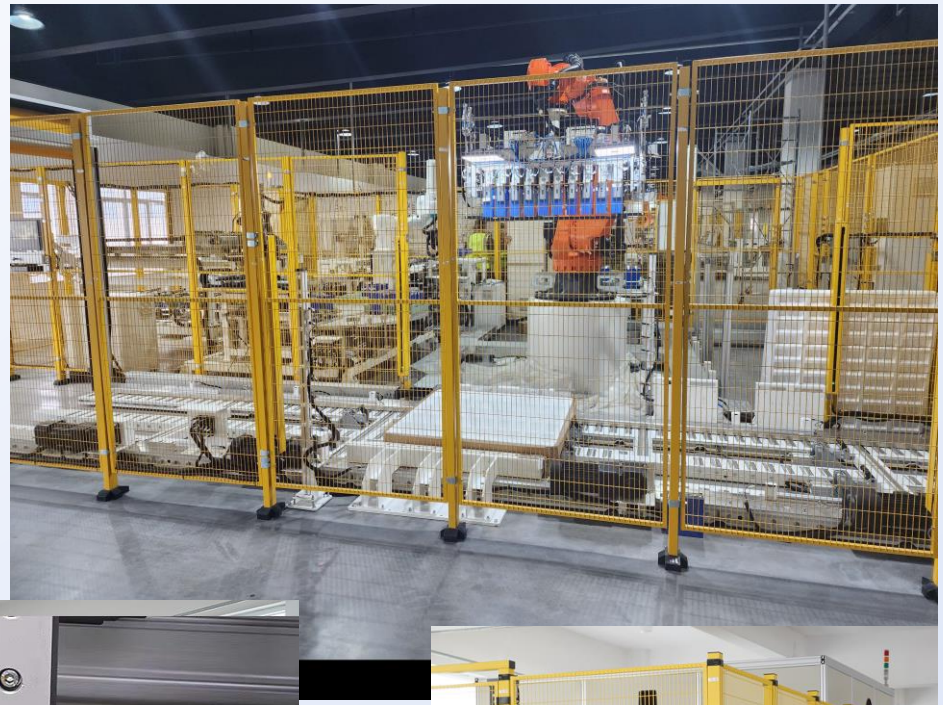
GOSTA Group Company Introduction

- Company founded in 2004, initially working as a sub-company of GOODSKY (TAIWAN ELECTRONICS MANUFACTURER);
- Invest in production lines to produce components used in battery management system. Start to work in battery pack industry for power battery pack and BMS development;
- Start manufacture of energy storage battery products and involve in system development and move the manufacture plant from Shanghai to Zhejiang;
- Reach a sales revenue of 20Million USD for ESS and battery pack products, owns many brands in electronic and energy industry.

ESS Division Structure

- 70+ PEOPLE IN PIPELINE PRODUCTION & 10+ PEOPLE R&D AND MARKETING;
- MARKETING, DESIGN AND BMS R&D OFFICE IN SHANGHAI/ZHEJIANG;
- FLAT ORGANISATION STRUCTURE FOR FAST RESPONSE AND SUPPORT;
- AUTOMATION AND FULL IN-HOUSE TEST CHAMBERS.
- CLOSE RELATIONSHIP WITH CRRC FOR PROJECT DEVELOPMENT IN COMMERCIAL FIELD.

Our Workshop



Products

Cell Type & Cooling Methods

- We use 51.2V 280Ah Cell as our standard cell unit for both cabinet and container type ESS.

Module model	51280
Connection mode	1P16S
Nominal voltage（V）	51.2
Operation voltage (V)	44.8~57.6
Rated capacity (Ah)	280
Nominal energy (kWh)	14.336
Standard charge and discharge current (A)	160
Charge and discharge rate	0.5C
Cooling method	forced air cooling
System voltage	1500V
Size (width, depth and height) (mm)	376×885×238.5
Weight (kg)	108

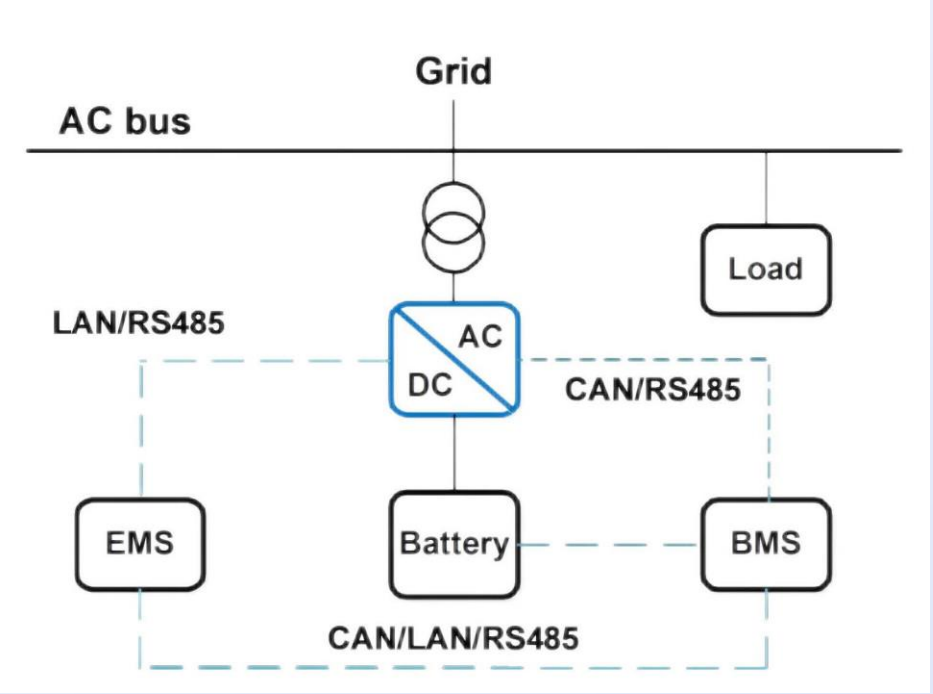
- Lifecycle > 6000 cycles, we use Grade A+ battery cell only for Commercial.
- We also have 76.8V 120Ah cell as an option to build battery cluster.
- Available in Air cooling (as default) and Liquid cooling.

Systems

System Diagram

- Applications & Impacts:

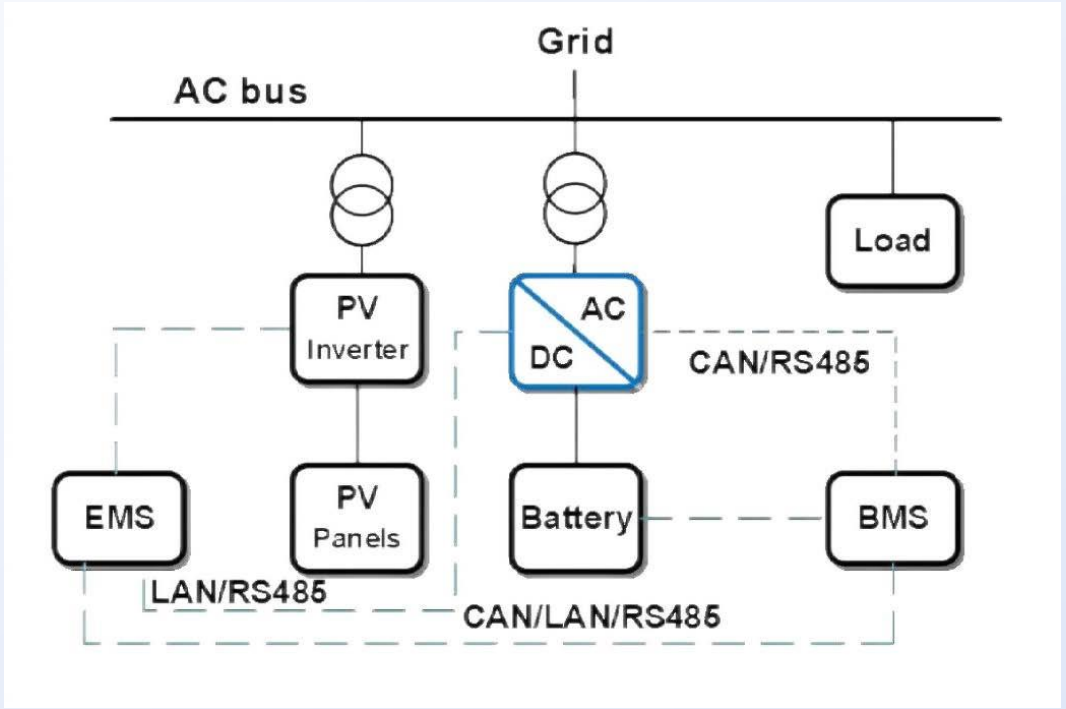
- Peak cutting and valley filling
- Demand side response
- Save money on your basic electricity bills
- Transformer capacity increase
- Improve power quality



System Diagram

- Applications & Impacts:

- Improve the photovoltaic
- Consumption capacity
- Peak filling valley
- Save money on basic electricity bills
- Improve power quality



- Other system connection methods also available.

Our Cases

750kWh 150kW off-grid, western China

- Project location: Hotan, Xinjiang
- Completion date: 2019
- Battery type: lithium iron phosphate
- Energy storage capacity: 750 kWh
- Photovoltaic capacity: 300kW
- Power conversion system: 150kW

250kWh 250kW power extension project, Germany

- Project location: Leipzig, Germany
- Completion date: Aug, 2020
- Battery type: lithium iron phosphate
- Energy storage capacity: 250 kWh
- Load power: 250kW
- Application: Power Extension & Peak Shaving

1.66MWh 500kW grid-tie project, Germany

- Project location: Germany
- Completion date: Oct 2020
- Battery type: lithium iron phosphate
- Installed capacity: 1,660 KWh
- Load power:500KW
- Application: Power Extension & Peak Shaving

829kWh 500kW 1c project, Ghana

- Project location: South Africa
- Completion date: 2023
- Battery type: lithium iron phosphate
- Energy storage capacity: 829 kWh
- Photovoltaic capacity: 500kW
- Power conversion system: 500kW

38.7MWh 17MW, China Yangze River Port

- Project size: 17 MW/38.7MWh
- Location: Jiangsu, China
- Project completion time: August, 2019

250kWh 50kW Reserve Micro Grid, Guinea & Bulgaria

- Project size :50kW/250kWh
- Project location: Guinea/Bulgaria
- Completion date: 2019 & 2022
- Project Profile: Applied to Field Load Electricity

215kWh Cabinet for CRRC, China

- Project size: 215kWh – various output options
- Project For: China Railway Base Station
- Completion date: 2019-2024
- Project Profile: Base station power supply

Thank you for watching

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