格斯科技
GUS TECHNOLOGY

About GUS Technology

GUS was started by a group of young material scientists with an objective to develop novel materials for energy-related applications. The sudden boom of EV markets and the trend of switching to renewable energy made us step up a notch expanding to become a lithium-ion battery manufacturing company in the year 2017.

At GUS, we fabricate pouch cells, suitable for EVs and energy storage systems (ESS) apart from producing customized battery packs, modules and a complete setup of ESS depending on the customers' demands. We provide a wholesome, flexible and environmentally friendly one-stop solution concerning the energy storage.

Our Products

Pouch Cell

Battery Module

Energy Storage System

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We specialize in making pouch cells

Why do we only make pouch cells?

Flexibility in design & customization

- Size and shape are customizable based on customer's needs.
- Easily assembled.

Higher safety level than cylindrical & prismatic cells.

Longer cycle life due to lower internal resistance and lower self-discharge.

Higher energy density both in weight and volume than cylindrical & prismatic cells.

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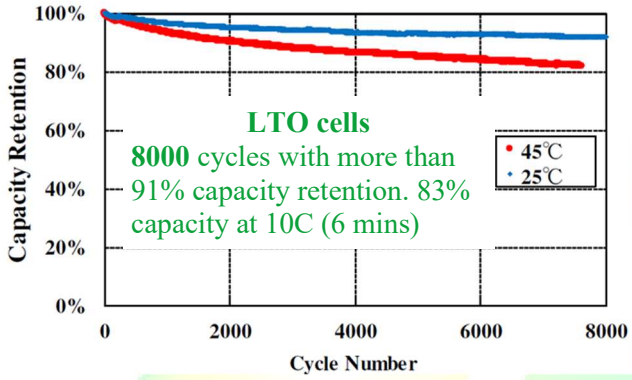
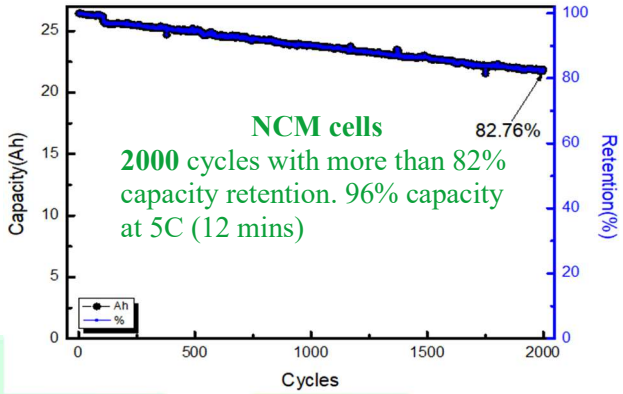
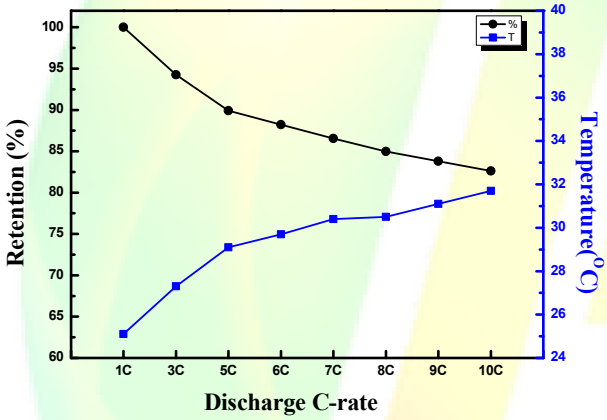
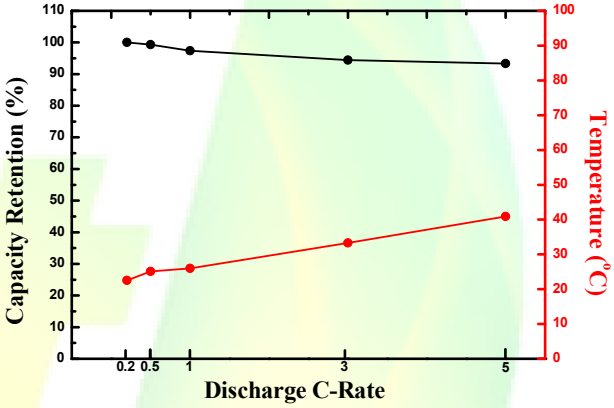
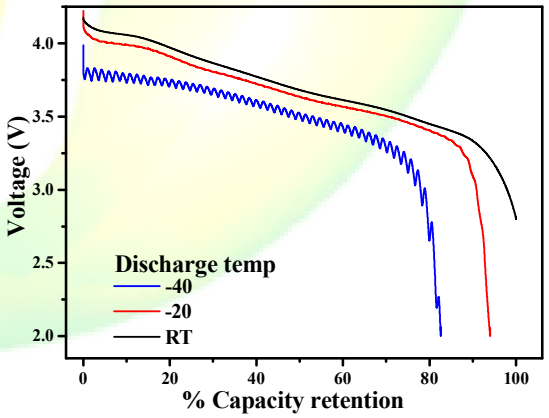
Key Technologies- cyclability and high C rate tests











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CELL SPECIFICATION

NCM 1

ITEM	VALUE	UNIT	REMARK
Model Name	100135253N		
Nominal Capacity	25	Ah	0.5C
Nominal Voltage	3.7	V	
Charge Voltage	4.2	V	
Cut-off Voltage	2.8	V	
Std. Charge Current	12.5	A	0.5C
Max. Charge Current	75	A	3.0C
Max. Discharge Current	125	A	5.0C
Operating Temperature	0~+45	℃	
Storage Temperature	-20~+60	℃	
Weight	500±50	g	
Dimension (LxWxT)	253x116x10	mm	

LTO

ITEM	VALUE	UNIT	REMARK
Model Name	130178253L		
Nominal Capacity	25	Ah	1.0C
Nominal Voltage	2.4	V	
Charge Voltage	2.7	V	
Cut-off Voltage	2.0	V	
Std. Charge Current	25	A	1.0C
Max. Charge Current	175	A	7.0C
Max. Discharge Current	250	A	10.0C
Operating Temperature	Charge: 0~+50 Discharge: -20~+50	℃	
Storage Temperature	-40~+60	℃	
Weight	890±20	g	
Dimension (LxWxT)	253x161x13	mm	

NCM 2

ITEM	VALUE	UNIT	REMARK
Model Name	120102310V		
Nominal Capacity	60	Ah	0.5C/2.80V
Nominal Voltage	3.7	V	
Charge Voltage	4.2	V	
Cut-off Voltage	2.8	V	
Std. Charge Current	30	A	
Max. Charge Current	60	A	1.0C
Max. Discharge Current	180	A	3.0C
Operating Temperature	0~+45	℃	
Storage Temperature	-20~+60	℃	
Weight	≦1,000	g	Approx.
Dimension (LxWxT)	310x102x12	mm	

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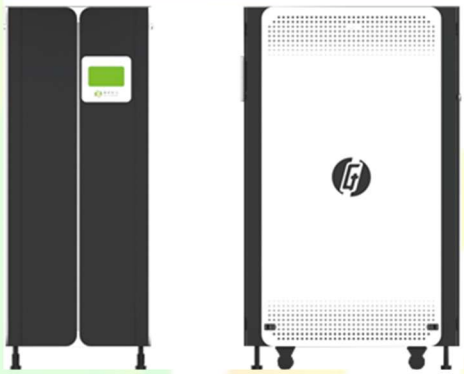
2.5KWh-15KWh Household Energy Storage System

SPECIFICATION

- **PRODUCT DESCRIPTION**

It's a 30U standard energy storage system (ESS) with typical 52.8V_{DC} output voltage and up to 15KWh energy capacity. The structure is based on the standard industrial 19" rack with maximum 6 units of 4U chassis which each unit contents ≧2.5KWh LTO battery module and independent battery management system (BMS). The external appearance is not only designed for functionality but also artistically. (Patent Pending)

Each rack contents a battery control unit (BCU) providing the battery system management and communication for the power conversion system (PCS) or Inverter.



- **FEATURES**
  - Elegantly and functionally external appearance
  - Two-door design saving operating space
  - Typical 52.8V DC output voltage
  - ≧2.5KWh LTO battery module in a 4U chassis
  - Independent BMS in each chassis
  - RS-485 communication for unit to unit and BCU to system
  - Automatically OV, UV, OC, OT, UT… etc. protections
  - BCU manages all the ESS units
  - LCD monitor to display the module status
  - Main system LED indicators
  - Support up to 6 sets of 4U chassis
- **APPLICATIONS**
  - Green energy for home and finite regions
  - Back up power for finite regions
- **OPERATING TEMPERATURE**
  - Charge: 0℃~50℃
  - Discharge: -20℃~50℃
- **DIMENSION**
  - WxDxH: 635.4x933.6x1,543 (mm)
- **WEIGHT**
  - 6KWh: 290KG ±5%
  - 15KWh: 475KG ±5%

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2.5KWh-15KWh Standard Energy Storage System
SPECIFICATION

- **BMS PARAMETER SETTING TABLE**

	ITEM	MIN.	TYP.	MAX.	UNIT
OV (Cell)	Detection Voltage	2.700	2.750	2.800	V
	Release Voltage	2.550	2.600	2.650	V
	Delay Time	0.9	1.0	1.1	s
UV (Cell)	Detection Voltage	2.050	2.100	2.150	V
	Release Voltage	2.250	2.300	2.350	V
	Delay Time	4.5	5.0	5.5	s
COC (HW)	Detection Level	57	60	63	A
	Delay Time	5.4	6.0	6.6	s
	Release Method	Release by entering Discharge mode (I≧2.0A)			
DOC (HW)	Detection Level	99.75	105	110.25	A
	Delay Time	4.5	5	5.5	s
	Release Method	Release by entering Charge mode (I≧2.0A)			
COT	Detection Level	--	55	--	℃
	Release Level	--	45	--	℃
CUT	Detection Level	--	-10	--	℃
	Release Level	--	1	--	℃
DOT	Detection Level	--	55	--	℃
	Release Level	--	45	--	℃
DUT	Detection Level	--	-10	--	℃
	Release Level	--	1	--	℃
OT/UT	Delay Time	1.8	2	2.2	s

NOTE: All parameters are programmable, and it depends on cell specification or customized requirements.

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