



# 12.8V 100Ah - 200Ah LFP Lithium Battery Pack



## What is a 12.8V 100Ah - 12.8V 200Ah battery?

Yiğit Battery lithium batteries represent the future of energy storage technology. Compared to traditional lead-acid batteries, they are not only lighter but also offer an unmatched cycle life with four times more cycles.

They are the perfect solution for a wide range of applications, including caravans, marine use, camping, and home energy storage. With a fully sealed design and an integrated battery management system, they ensure top-level safety.

If you're considering replacing your existing deep-cycle lead-acid battery, Yiğit Battery lithium batteries can seamlessly work with the same charging system, as the built-in battery management system optimizes all operations automatically. Additionally, you'll notice that lithium batteries charge much faster and more efficiently than lead-acid ones, making recovery times significantly quicker.

This Yiğit Battery lithium battery model features active cell Balancing technology, which balances the internal battery cells not only during charging but also during discharging. This helps the battery maintain performance levels as close to 100% charge as possible.

## Applications



### Caravans and Camping

- Ideal for energy storage in caravans.
- Used as a portable power source for camping activities.
- Provides reliable power for lighting, refrigerators, small electronic devices, and other needs.



### Marine and Boat Systems

- Used for energy storage on boats.
- Powers fishing equipment, navigation devices, and lighting systems.
- Preferred for its durability in high-humidity and challenging marine conditions.



### Renewable Energy Systems

- Utilized for energy storage with solar panels and wind turbines.
- Ensures energy continuity in off-grid systems.
- Contributes to eco-friendly energy solutions.

## Yiğit Battery's Solutions

Yiğit Battery is a forward-thinking, innovative, and powerful brand that has established itself as a leader in the global market with its exceptional products and solutions. By exporting to over 100 countries across five continents, we are proud to deliver cutting-edge energy storage solutions that meet the diverse needs of customers worldwide. Our expertise and dedication allow us to remain at the forefront of the energy storage industry, providing reliable and advanced technologies that enhance energy efficiency and resilience.

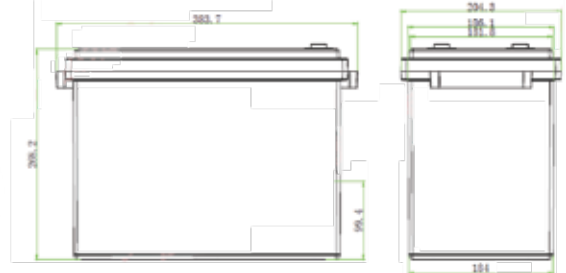
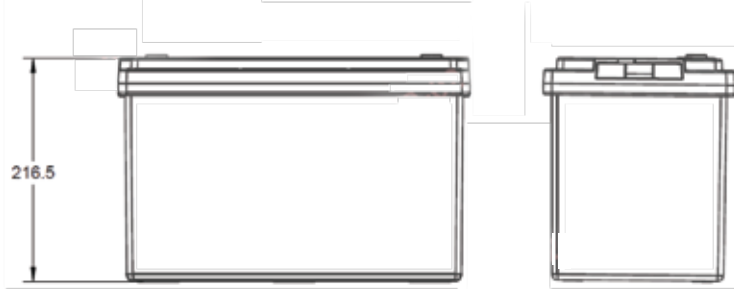
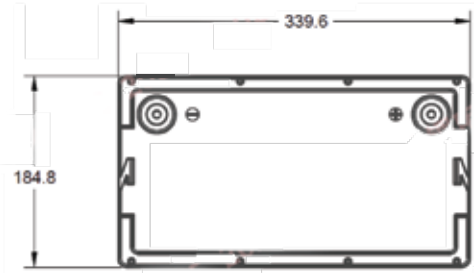
With our 12V series batteries, designed to perform under even the most challenging conditions, we are committed to supporting our customers in optimizing their energy management systems. These solutions not only streamline operations but also align with global sustainability goals, helping businesses and individuals reduce their environmental impact.

## PARAMETERS

## 12.8V100Ah

## 12.8V200Ah

Cell type/Ah	LFP-100	LFP-260
Package type	1P4S	1P4S
Battery capacity/kWh	1.28	2.56
Battery voltage range/V	10.8V - 14.6	10.8V - 14.6
Charge-discharge ratio/C	1	1
Max charge - discharge ratio/C	1	1
Nominal power/kWh	1.28	1.28
Maximum current/A	100	100
Size/mm	340*185*217	384*204*268
Weight	11	19
IP	IP67	IP67
Anti-corrosion grade	Nonmetal	Nonmetal
Operating temperature range	Charge 0~55°C Discharge -20~55°C	Charge 0~55°C Discharge -20~55°C
Relative humidity	5%RH~95%RH	5%RH~95%RH
Maximum operating height/m	<3000	<3000
Cooling concept	Nature cooling	Nature cooling
Communication interfaces	Bluetooth	Bluetooth
Communication protocols	Bluetooth	Bluetooth
Standard color	Black	Black
Connection type	4S/4P	4S/4P
Compatibility	UN38.3 Cell: CE, ROHS 0.5/UN38.3 (0.5C)/UL9540A IEC62613, UL1642 UL1973, UL9540A	UN38.3 Cell: CE, ROHS 0.5/UN38.3 (0.5C)/UL9540A IEC62613, UL1642 UL1973



Yiğit Akü Malzemeleri A.Ş. | Lityum İyon Fabrika Ural Cad. No:20 O.S.B Sincan/Ankara  
Tel: +90 312 267 02 80  
info@yigitaku.com | export@yigitaku.com

[www.yigitaku.com](http://www.yigitaku.com)  
[www.distalong.com](http://www.distalong.com)



# 51.2V 100Ah - 150Ah Lithium Battery Pack for Use in Base Stations



## What is 51.2V 100Ah for Telecom Battery?

Our 51.2V 100Ah Telecom Lithium-Ion Battery is designed to deliver continuous and reliable power for critical telecommunications infrastructure. With its high capacity and long cycle life, it ensures uninterrupted operations even under challenging conditions. Equipped with an advanced Battery Management System (BMS), this battery provides maximum safety and performance by protecting against overcharging, overheating, and voltage fluctuations.

## Performances

- Supports up to 10kW peak power
- Wide operating temperature range makes it suitable for different terrains and environments

## Applications



### Telecom

Our Telecom Lithium-Ion Battery is designed to provide consistent and reliable power for critical telecom infrastructure.

## Key Feature

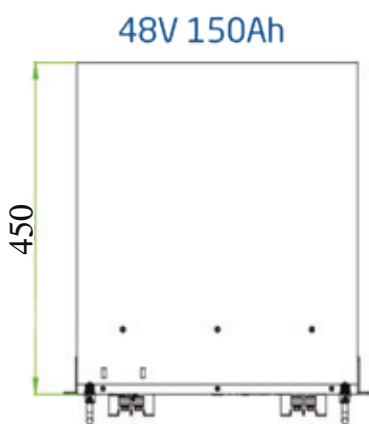
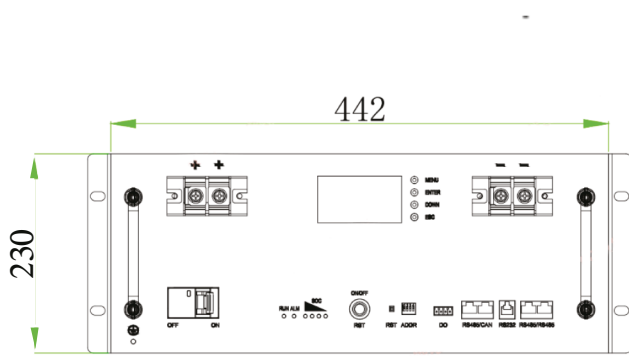
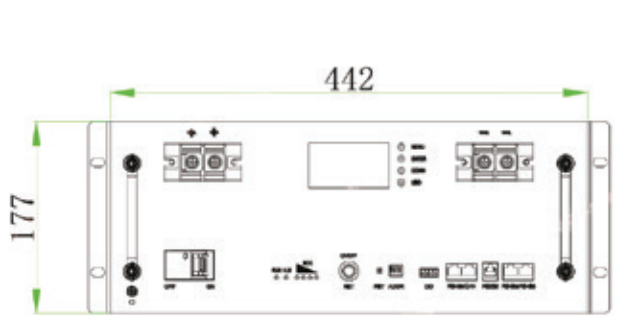
- Key Feature
- Long cycle life and LFP chemistry delivering high energy density
- Flexibility in battery pack placement due to lower height: under the driver seat or under the cargo
- Capable to withstand side impact, drop and top loading
- High accuracy in voltage, current measurement
- Accuracy in SOC estimation > 98%
- Service friendly design, allows easy access to electronic and electro mechanical components
- 100% Automotive qualified components
- Thermal management to ensure battery operation at controlled temperature

## Yiğit Battery's Solutions

Equipped with advanced features like crash detection, redundant safety mechanisms, heater control, master/ slave adaptability and many more; the pack can be integrated in various architectures to ensure high efficiency. Needless to say, the battery pack is compliant to industry standards in terms of both safety and performance. Yiğit Battery is an innovative and powerful brand that has proven itself in the global market. By exporting to more than 100 countries across five continents, we offer energy storage solutions worldwide. With our container-type batteries, we are here to help our customers streamline their energy management, contribute to sustainability goals, and provide an uninterrupted power supply.

PARAMETERS

	48V 100Ah	48V 150Ah
Rated voltage (V)	48	48
Energy (Wh)	4800	7200
Rated capacity (Ah)	100	150
Charge cutoff voltage (V)	54.75	54.75
Standard charging current (A)	50	75
Max charging current (A)	100	150
Discharging cutoff current (A)	2	2
Discharging cutoff voltage (V)	40.5	40.5
Standad continuous discharging current (A)	50	75
Max discharging current (A)	100	150
Resistance (m)	≤50	≤50
Discharging temperature range (°C)	-20 ~ 65	-20 ~ 65
Charging temperature range (°C)	0 ~ 50	0 ~ 50
Storage temperature range (°C)	-30 ~ 35	-30 ~ 35
Storage environment humidity rate (RH)	5% ~ 85%	5% ~ 85%
Operating environment humidity rate (RH)	≤80%	≤80%
Delivered product's charged energy	≤30% - 50-60%	≤30% - 50-60%







# 5 KWh Home Energy Storage System (HESS)



## What Are Home-Type Batteries?

Home batteries are a type of battery commonly used in energy storage systems and are designed to meet the electricity needs of households. These batteries play a crucial role in enabling the more efficient use of renewable energy sources. By storing energy generated from sources like solar panels or wind turbines, they make this energy available for use at any time of the day. Additionally, they provide uninterrupted power during outages, enhancing comfort and safety. Home batteries also help reduce energy costs and contribute significantly to more environmentally friendly energy consumption. In terms of energy efficiency and sustainability, home batteries have become an indispensable part of modern life.

## Home-Type Batteries for Power Storage Solutions

**Uninterrupted Power Supply:** Home batteries provide uninterrupted energy to households during power outages, enhancing comfort and convenience. This feature is particularly advantageous in areas where power outages are frequent.

**Reducing Energy Costs:** Batteries operate independently of the power grid, helping users lower their energy bills. Excess solar energy produced during the day can be stored and used during nighttime hours.

Home batteries are an excellent choice for users looking to enhance energy efficiency, reduce costs, and protect the environment. As an integral part of modern energy systems, these solutions represent a significant step toward a sustainable future.

## Yiğit Battery's Solutions

Yiğit Battery provides high-performance, reliable, and environmentally friendly solutions in the field of container-type batteries, backed by extensive expertise and experience. Our products are manufactured according to international quality standards and are equipped with continuously evolving technology. Each of our home-type energy batteries is designed to deliver reliable performance and advanced monitoring systems. Yiğit Battery is an innovative and powerful brand that has proven itself in the global market. By exporting to more than 100 countries across five continents, we offer energy storage solutions worldwide. With our home-type energy batteries, we are here to help our customers streamline their energy management, contribute to sustainability goals, and provide an uninterrupted power supply.

## Applications



### Renewable Energy Storage

- Helps maintain a stable and reliable power supply by storing energy obtained from renewable sources like solar.



### Grid Backup Power

- Serves as a backup during power outages, meeting the energy needs of critical infrastructures such as hospitals and data centers.



### Power Quality

- Powers critical facilities, if the grid happens to go down.



### Smart Home Energy Management

- Home batteries can be integrated with smart home systems to optimize energy consumption.

## PARAMETERS

Cell Type / Ah	LFP-100
Configuration	1P16S
Battery Capacity / kWh	5.12
Battery Voltage Range / V	40-58.4
Nominal Charge-Discharge Ratio	0.5 C
Max Charge - Discharge Ratio	1C
Maximum Current	100A
Size / mm	700 x 490 x 157
Weight / kg	55
Protection Class	IP20
Operating Temperature Range	Charge: 0 ~ 55 °C Discharge: -20 ~ 55 °C
Cooling Concept	Nature cooling
Communication Type	CAN/RS485/RS232
Standard Color	Black
Display	3.5" LCD
Charge and Discharge Terminals	Quick Plug Terminals or Barrier Terminals
Max Parallel Connections	15PCS
Intermodulated Inverters	GROWATT, GOODWE, PCHNE, SRNE, VICTRON, VOLTRONIC, DEYE MEGAREVO, SMA, KSTAR, GINLONG, SOLIS, SOFAR, SACOLAR, INVT SCHNEIDER, SOLAX, KELONG
Compatibility	UN38.3 /MSDS/ROHS Cell: CE, ROHS, IEC62613,IL1642, UL1973, UL9540A

## GF-5KWh-005



Yiğit Akü Malzemeleri A.Ş. | Lityum İyon Fabrika Ural Cad. No:20 O.S.B Sincan/Ankara  
Tel: +90 312 267 02 80  
info@yigitaku.com | export@yigitaku.com

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# Industrial Type Lithium Batteries for Logistic Applications



## What Are Industrial Type Batteries?

Industrial type lithium batteries are highly specialized energy storage systems engineered to provide reliable and efficient power for automated material handling equipment. These batteries are integral to the functionality of forklifts, pallet jacks, and a wide variety of AGVs commonly deployed in warehouses, factories, logistics hubs, and other industrial settings.

Designed with a focus on durability and efficiency, these batteries deliver the consistent energy required to support the automation of critical processes such as transporting goods, loading and unloading materials, and inventory management.

## Industrial Type Batteries for Power Storage Solutions

Industrial type batteries are advanced power storage solutions specifically designed to support the high energy demands of forklifts and other industrial equipment. These batteries provide reliable and efficient power for material handling in warehouses, factories, and distribution centers, contributing to the seamless operation of industrial workflows.

Modern forklift batteries, particularly lithium-ion, are gaining popularity for their superior performance, fast charging, longer lifespan, and minimal maintenance requirements.

Forklift batteries are engineered to handle the rigorous demands of heavy equipment operation.

## Yiğit Battery's Solutions

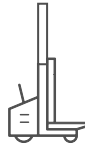
Yiğit Battery provides high-performance, reliable, and environmentally friendly solutions in the field of industrial lithium type batteries, backed by extensive expertise and experience. Our products are manufactured according to international quality standards and are equipped with continuously evolving technology. Each of our industrial-type lithium batteries is designed to deliver reliable performance even in the most challenging climate conditions, IP54 protection class, and advanced monitoring systems. Yiğit Battery is an innovative and powerful brand that has proven itself in the global market. By exporting to more than 100 countries across five continents, we offer energy storage solutions worldwide. With our industrial-type lithium batteries, we are here to help our customers contribute to sustainability goals, and provide an uninterrupted power supply.

## Applications



### Renewable Energy Storage

- Helps maintain a stable and reliable power supply by storing energy obtained from renewable sources like solar and wind.



### Grid Backup Power

- Serves as a backup during power outages, meeting the energy needs of critical infrastructures such as hospitals and data centers.



### Peak Load Balancing

- Activates during peak grid hours to help balance energy demand, reducing the load on the power grid.



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## PARAMETERS

25.6KWh-206AH

51.2KWh-456AH

83.2KWh-412AH

Cell type / Ah	LFP-206	LFP-228	LFP 206
Package Type	1P8S	2P16S	2P26S
Battery Capacity / KWh	5.27	23.35	34.27
Battery Voltage Range / V	20V~29.2	40~58.4	62.5~94.9
Charge-Discharge Ratio	0.5C	0.5C	0.5C
Max Charge - Discharge Ratio	1C	1C	1C
Maximum Current	200A	400A	400A
Size / mm	550*195*520	792*510*410	990*750*411
Weight / kg	60+5%	200+5%	260+5%
IP	IP54	IP54	IP54
Operating Temperature Range	Charge: 0 ~ 55 °C Discharge: -20 ~ 55 °C	Charge: 0 ~ 55 °C Discharge: -20 ~ 55 °C	Charge: 0 ~ 55 °C Discharge: -20 ~ 55 °C
Cooling Concept	Nature cooling	Nature cooling	Nature cooling
Communication Interfaces	CAN	CAN	CAN
Standard color	RAL7016	RAL7016	RAL7016
Compatibility	UN38.3 Cell: CE, ROHS, IEC62613,UL1642 UL1973	UN38.3 Cell: ROHS, IEC62613, L1642 UL1973	UN38.3 Cell: CE, IEC62613, UL1642 UL1973



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# 0.5C- 215kWh Lithium-Based Liquid-Cooled Industrial Energy Storage System (BESS)



## What Are Container-Type Batteries?

Industrial type batteries are energy storage systems where high-energy-density batteries, such as lithium-ion, are placed inside a modular industrial and supported by specialized cooling, protection, and monitoring systems. Industrial type batteries provide a sustainable and reliable energy source, especially when integrated with renewable energy sources, ensuring a balanced supply and demand of energy.

## 215kWh Industrial Type Battery Energy Storage Cabinet

1. High-performance LiFePo4 battery .
2. Intelligent temperature control .
3. Real-time data backup.
4. Automatic fire fighting system with high safety.
5. Patented design with pressure relief and flame arrest.
6. One-button start, automatic operating and it support multiple parallel connection.
7. Protection class IP54, suitable for outdoor use.
8. Four layers of safety protection design for reliability.
9. Remote viewing service.

## Applications



### Renewable Energy Storage

- Helps maintain a stable and reliable power supply by storing energy obtained from renewable sources like solar and wind.



### Grid Backup Power

- Serves as a backup during power outages, meeting the energy needs of critical infrastructures such as hospitals and data centers.



### Peak Load Balancing

- Activates during peak grid hours to help balance energy demand, reducing the load on the power grid.



### Industrial and Commercial Energy Management

- Reduces energy costs and ensures uninterrupted power in high consumption locations like factories, data centers, and hospitals reducing the load on the power grid.



### Mobile Power Requirements

- Offers a quick and portable energy solution for temporary power needs in event areas, construction sites, or remote locations.

## Yiğit Battery's Solutions

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With our industrial type batteries, designed to perform under even the most challenging conditions, we are committed to supporting our customers in optimizing their energy management systems. These solutions not only streamline operations but also align with global sustainability goals, helping businesses and individuals reduce their environmental impact.



## PARAMETERS

## GF-215kWh

Cell type / Ah	LFP-280
Package type	1P48S
Shelf size	1P240S
System configuration	1P240S
Battery capacity/kWh	215
DC usable energy FAT (Factory acceptance test)/kWh	215
DC usable energy SAT (Site acceptance test)/kWh	210
Battery voltage range	DC650V-876V
Charge-discharge ratio/C	0.5
Max charge - discharge ratio/C	0.5
Nominal power/kWh	100
Maximum current/A	164
Cabinet type	Nonstandard cabinet
Size/mm	D1460*W1400*H2203
Weight	2.5T
IP	IP54
Anti-corrosion grade	C4
Operating temperature range	Recommend operation temperature 10°C~35°C storage temperature -30°C~-55°C
Relative humidity	5%RH~ 95%RH
Maximum operating height/m	≤3000
Cooling concept	Liquid cooling
Noise	≤80dB@1m
Fire suppression system	System level:Perfluoro ketone fire protection Pack level:Aerosol fire protection
Auxiliary system voltage	AC230V/400V 50/60Hz
Auxiliary system wiring	3L+N
Auxiliary system peak power requirement/kWh	105
Communication interfaces	CAN/RS485
Communication protocols	CAN2.0B/modbus-RTU
Standard color	RAL7035
Compatibility	UN38.3 Cell: ROHS,UL1642,UL1973,UL9540A



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Tel: +90 312 267 02 80  
info@yigitaku.com | export@yigitaku.com

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# 0.5C Lithium-Based Liquid-Cooled 2.75MWh 5MWh Capacity Container Energy Storage System (BESS)



## What Are Container-Type Batteries?

Container-type batteries are energy storage systems where high-energy-density batteries, such as lithium-ion, are placed inside a modular container and supported by specialized cooling, protection, and monitoring systems. These systems, available in standard container sizes like 20ft and 40ft, stand out with their high energy capacity and portability. Container-type batteries provide a sustainable and reliable energy source, especially when integrated with renewable energy sources, ensuring a balanced supply and demand of energy.

## Container-Type Batteries for Power Storage Solutions

At Yiğit Battery, we provide our customers with reliable, durable, and flexible power sources through our container-type battery solutions, which are specifically developed for high-capacity energy storage needs. Thanks to their modular structure within containers, these batteries are ideal solutions for storing and managing large amounts of energy efficiently. Suitable for renewable energy integration, backup power requirements, and portable energy needs, container-type batteries offer revolutionary solutions in energy management.

## Yiğit Battery's Solutions

Yiğit Battery provides high-performance, reliable, and environmentally friendly solutions in the field of container-type batteries, backed by extensive expertise and experience. Our products are manufactured according to international quality standards and are equipped with continuously evolving technology. Each of our container-type batteries is designed to deliver reliable performance even in the most challenging climate conditions, supported by liquid cooling, IP55 protection class, and advanced monitoring systems. Yiğit Battery is an innovative and powerful brand that has proven itself in the global market. By exporting to more than 100 countries across five continents, we offer energy storage solutions worldwide. With our container-type batteries, we are here to help our customers streamline their energy management, contribute to sustainability goals, and provide an uninterrupted power supply.

## Applications



### Renewable Energy Storage

- Helps maintain a stable and reliable power supply by storing energy obtained from renewable sources like solar and wind.



### Grid Backup Power

- Serves as a backup during power outages, meeting the energy needs of critical infrastructures such as hospitals and data centers.



### Peak Load Balancing

- Activates during peak grid hours to help balance energy demand, reducing the load on the power grid.



### Industrial and Commercial Energy Management

- Reduces energy costs and ensures uninterrupted power in high consumption locations like factories, data centers, and hospitals reducing the load on the power grid.



### Mobile Power Requirements

- Offers a quick and portable energy solution for temporary power needs in event areas, construction sites, or remote locations.

## PARAMETERS

## GF-20ft.-2.75MWh-008

## GF-20ft.-5MWh-010

Cell type/Ah	LFP-280	LFP-314
Package type	1P48S	1P52S
Shelf size	1P384S	1P416S
System configuration	8*1P384S	12*1P416S
Battery capacity/kWh	2752	5016
DC usable energy FAT (Factory acceptance test)/kWh	2476	4715
DC usable energy SAT (Site acceptance test) /kWh	2435	4620
Battery voltage range	1075.2~1363.2V	1164.8~1476.8V
Charge-discharge ratio	0.5C	0.5C
Max charge - discharge ratio	0.6C	0.6C
Nominal power/kW	1375	2500
Maximum current/A	1344	2260
Cabinet type	20ft.	20ft.
Size/mm	2438 x 6058 x 2896	2438 x 6058 x 2896
Weight	≤33T	≤43T
IP	IP55	IP55
Anti-corrosion grade	C5	C5
Operating temperature range	Discharging temperature: -10 °C to ~ 55 °C Charging temperature: 0 °C to ~ 55 °C	Discharging temperature: -10 °C to ~ 55 °C Charging temperature: 0 °C to ~ 55 °C
Relative humidity	0~90%RH	0~90%RH
Maximum operating height/m	<2,000	<2,000
Cooling concept	Liquid cooling	Liquid cooling
Noise/m	≤80dB@1	≤80dB@1
Fire suppression system	aerosol/Water-based fire protection interface	aerosol/Water-based fire protection interface
Auxiliary system nominal power/kW	27	29
Auxiliary system voltage	AC400V/50Hz, 3-phase 4-wire	AC400V/50Hz, 3-phase 4-wire
Auxiliary system wiring	3L+N	3L+N
Auxiliary system peak power requirement/kW	32	42
Communication interfaces	CAN/RS485/Ethernet	CAN/RS485/Ethernet
Communication protocols	CAN2.0B/modbus-RTU/IP	CAN2.0B/modbus-RTU/IP
Standard color	RAL7035	RAL7035
Compatibility	1. PACK: 36276-2018 1C/36276-2018 type test 0.5/UN38.3 (0.5C)/UL9540A (0.5C/1C) commissioned certification completed. 2. Cluster: 36276-2018 Commissioned Certification/IEC61000/IEC626 19/UL9540A 1C (0.5C/1C)	1. PACK: 36276-2018 1C/36276-2018 type test 0.5/UN38.3 (0.5C)/UL9540A (0.5C/1C) commissioned certification completed. 2. Cluster: 36276-2018 Commissioned Certification/IEC61000/IEC62 619/UL9540A 1C (0.5C/1C)



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Tel: +90 312 267 02 80  
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# 1C Lithium-Based Liquid-Cooled 2.06 MWh 5MWh Capacity Container Energy Storage System (BESS)



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## Container-Type Batteries for Power Storage Solutions

At Yiğit Battery, we provide our customers with reliable, durable, and flexible power sources through our container-type battery solutions, which are specifically developed for high-capacity energy storage needs. Thanks to their modular structure within containers, these batteries are ideal solutions for storing and managing large amounts of energy efficiently. Suitable for renewable energy integration, backup power requirements, and portable energy needs, container-type batteries offer revolutionary solutions in energy management.

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## Applications



### Renewable Energy Storage

- Helps maintain a stable and reliable power supply by storing energy obtained from renewable sources like solar and wind.



### Grid Backup Power

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### Peak Load Balancing

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### Industrial and Commercial Energy Management

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### Mobile Power Requirements

- Offers a quick and portable energy solution for temporary power needs in event areas, construction sites, or remote locations.



## PARAMETERS

## GF-20ft.-2.06MWh-008

## GF-40ft. - 5MWh-010

Cell type/Ah	LFP-280	LFP-314
Package type	1P48S	1P52S
Shelf size	1P384S	1P416S
System configuration	6*1P384S	12*1P416S
Battery capacity / kWh	2064	5016
DC usable energy FAT (Factory acceptance test) /kWh	1899	4615
DC usable energy SAT (Site acceptance test) /kWh	1861	4522
Battery voltage range	1075.2~1363.2V	1164.8~1476.8V
Charge-discharge ratio	1C	1C
Max charge - discharge ratio	1C	1C
Nominal power/kW	2000	5000
Maximum current/A	1680	3768
Cabinet type	20ft.	40ft.
Size/mm	2438 x 6058 x 2896	2438 x 12192 x 2896
Weight	≤30T	<55T
IP	IP55	IP55
Anti-corrosion grade	C5	C5
Operating temperature range	Discharging temperature: -10 °C to ~ 55 °C Charging temperature: 0 °C to ~ 55 °C	Discharging temperature: -10 °C to ~ 55 °C Charging temperature: 0 °C to ~ 55 °C
Relative humidity	0~90%RH	0~90%RH
Maximum operating height/m	<2,000	<2,000
Cooling concept	Liquid cooling	Liquid cooling
Noise/m	≤80dB@1	≤80dB@1
Fire suppression system	aerosol/Water-based fire protection interface	aerosol/Water-based fire protection interface
Auxiliary system nominal power /kW	58	84
Auxiliary system voltage	AC400V/50Hz, 3-phase 4-wire	AC400V/50Hz, 3-phase 4-wire
Auxiliary system wiring	3L+N	3L+N
Auxiliary system peak power requirement/kW	72	108
Communication interfaces	CAN/RS485/Ethernet	CAN/RS485/Ethernet
Communication protocols	CAN2.0B/modbus-RTU/IP	CAN2.0B/modbus-RTU/IP
Standard color	RAL7035	RAL7035
Compatibility	1. PACK: 36276-2018 (0.5C/1C)/UN38.3 (0.5C)/UL9540A /0.5C/1C) 2. Cluster: 36276-2018 (0.5C/1C)IEC61000/IEC626 19/UL9540A (0.5C/1C)/UL1973 (0.5C/1C)	



Yiğit Akü Malzemeleri A.Ş. | Lityum İyon Fabrika Ural Cad. No:20 O.S.B Sincan/Ankara  
 Tel: +90 312 267 02 80  
 info@yigitaku.com | export@yigitaku.com

[www.yigitaku.com](http://www.yigitaku.com)  
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