

PRODUCT BROCHURE

BATTERY ENERGY STORAGE SYSTEM

CONTACT US

+86 177 2775 9177

+86 186 6627 1339

inbox@terli.cn

TERLI / Terli Solution

Guangzhou TERLI New Energy Technology Co Ltd

www.terli.net / www.terli.cn

Guangzhou TERLI New Energy Technology Co., Ltd.

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01

BRAND INTERPRETATION

Terli is a forward-thinking brand committed to innovative, sustainable energy storage solutions. Focused on quality and efficiency, we empower homes and businesses to achieve energy independence and reduce their carbon footprint.

COMPANY PROFILE

Guangzhou TERLI New Energy Technology Co.,Ltd. was established in December 2018 and is located in Panyu District, Guangzhou. Specializing in technical services, equipment research and development, sales and manufacturing in the field of newenergy for power systems, providing charging solutions.

Guangzhou TERLI New Energy Technology Co.,Ltd.

ENTERPRISE QUALIFICATION



Create A Green, Safe And Convenient Energy Environment

Adhering to the concept of "New Technology, New Thinking, New Business", we constantly innovate business thinking and network cognition, devote ourselves to new energy charging products, and strive to form a closed-loop business system for product research and development, production and sales, installation services, and product operations. It is the unswerving mission and direction of TERLI New Energy!

FACTORY ENVIRONMENT

Independent, Research, Development and Production

Terli stands out with its ability to independently research, develop, and manufacture cutting-edge energy storage solutions. This in-house capability ensures complete control over product quality, design, and innovation, allowing us to deliver customized solutions that meet specific customer needs.



OEM/ODM Factory



Production line office



Professional production equipment

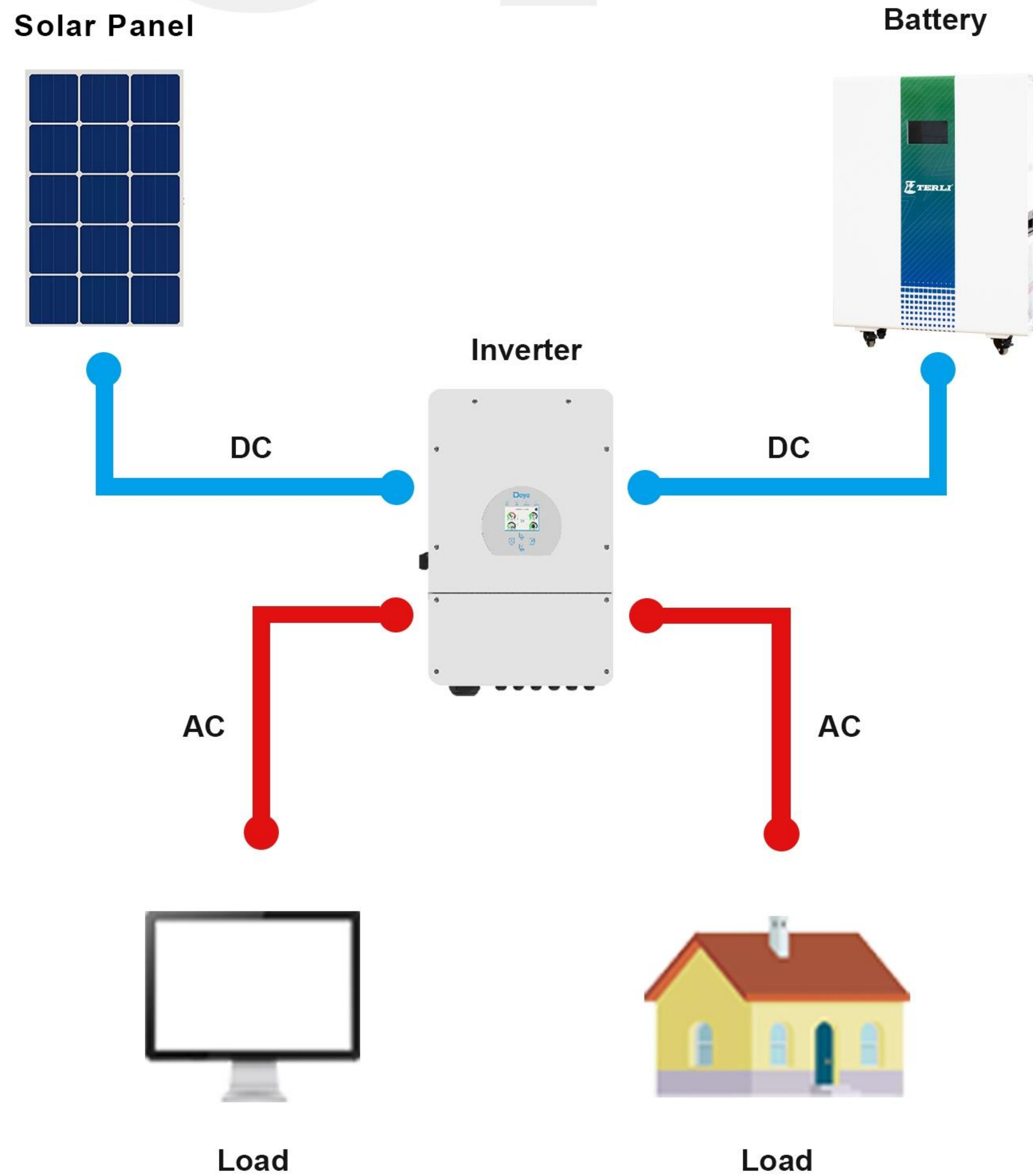


Professional production R&D team

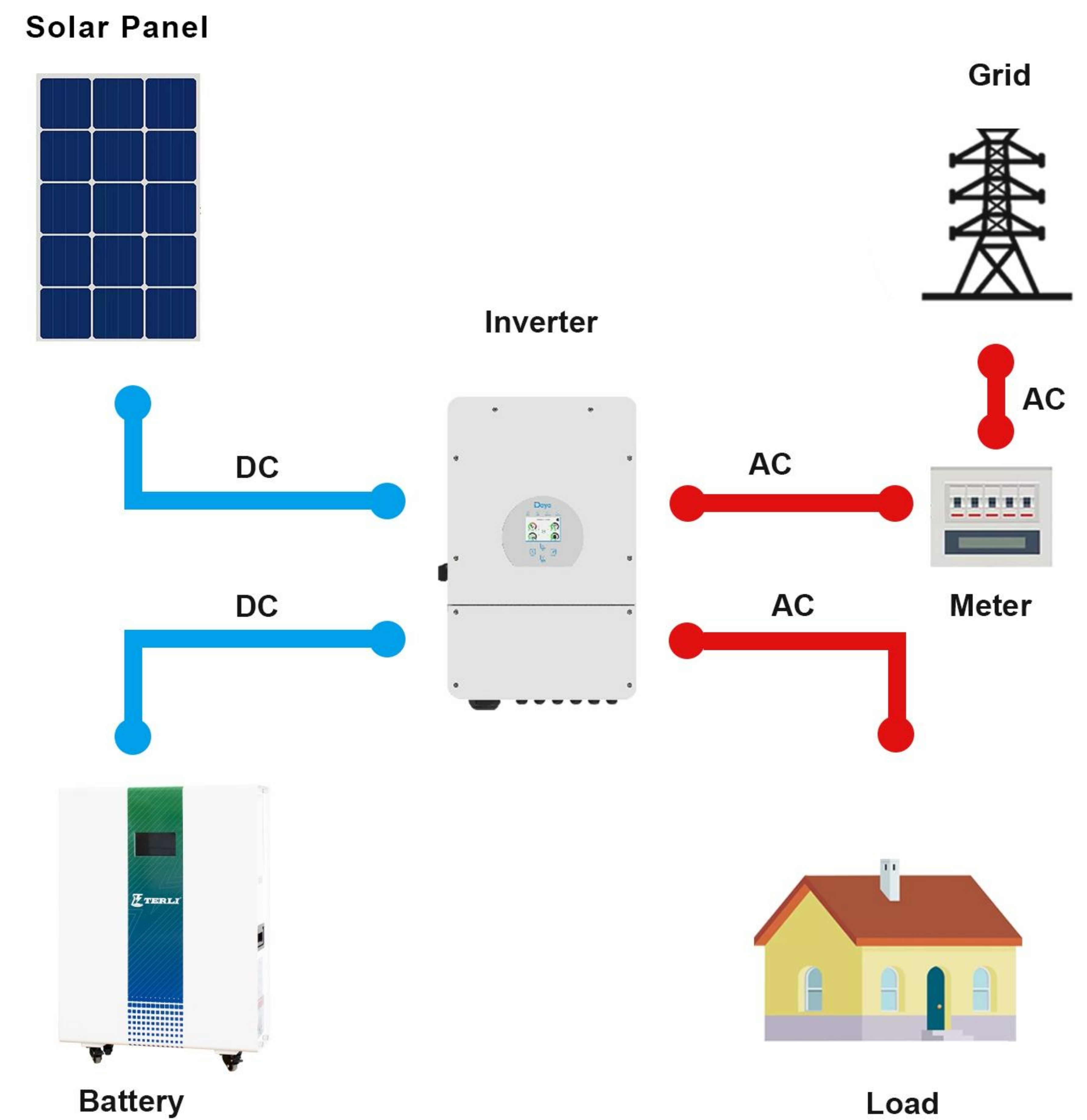


Mass customization production

Off-Grid System



Hybrid System



SOLAR ENERGY STORAGE SYSTEM

configuration parameter

6KW

- ① PV: 6000w
- ② Battery: 5kWh
- ③ Inverter: 6kw

8KW

- ① PV: 8000w
- ② Battery: 10kWh
- ③ Inverter: 8kw

10KW

- ① PV: 10000w
- ② Battery: 10kWh
- ③ Inverter: 10kw

16KW

- ① PV: 16000w
- ② Battery: 15kWh
- ③ Inverter: 16kw

PRODUCT INTRODUCTION

Offer energy storage batteries for various applications



HOME



PORTABLE



VEHICLE



COMMERCIAL

COMMERCIAL ENERGY STORAGE BATTERY



PORTABLE HOME ENERGY BATTERY



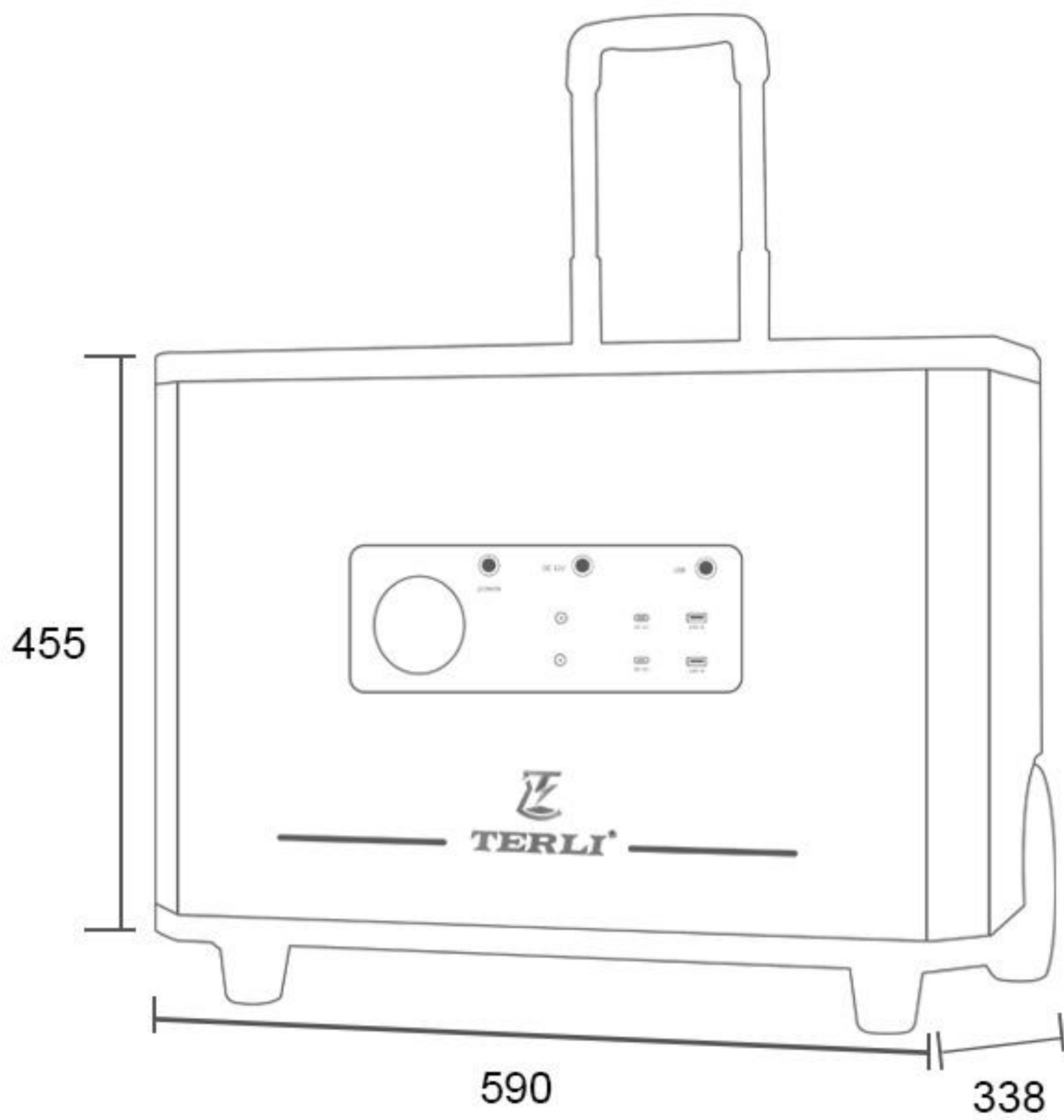
HOME ENERGY STORAGE BATTERY



VEHICLE ENERGY STORAGE BATTERY

HOME ENERGY STORAGE

Hand-pull mobile battery TL-P5000



TL-P5000

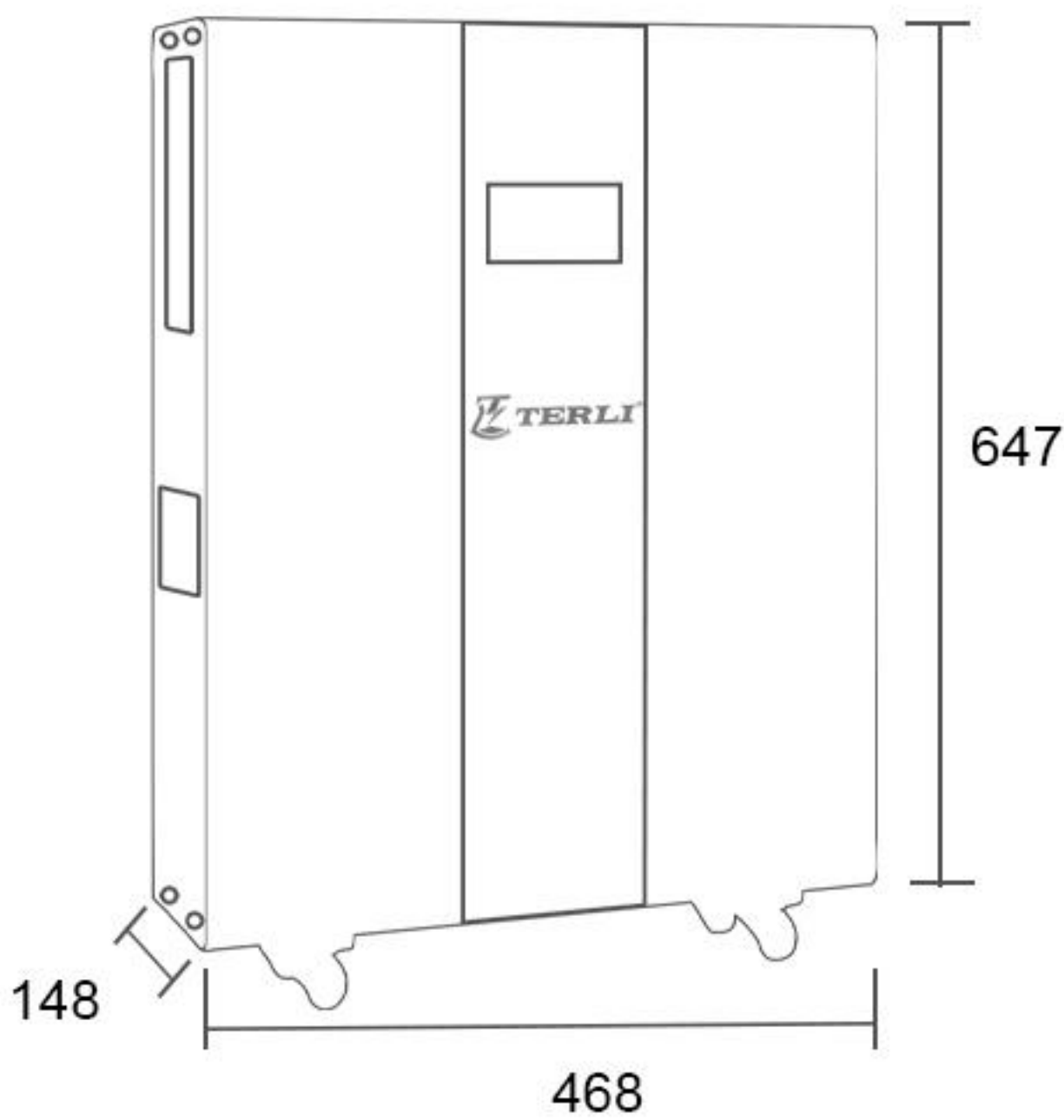
- Efficient Miniaturization
- Smaller and Intelligent
- LED Display

Technical Parameter

Project	Specification
Rated Voltage	51.2V
Rated Capacity	102Ah
Rated Power	5.22Kwh
Grouping Method	16S1P
Cycle Life	≥4000 cycles @80%DOD
Power Consumption	1%/M
Charging Efficiency	≥97%
Discharging Efficiency	≥98%
Communication	CAN
Recommended Charging Voltage	57.6V
Recommended Charging Current	50A
Charging Cut-off Voltage	58.4V
Charging Cut-off Current	10A
Recommended Discharge Current	100A
Maximum Instantaneous Discharge Current	120A
Cut-off Voltage	44.8V
Charging Temperature Range	0℃~55℃
Discharging Temperature Range	-20℃~60℃
Storage Temperature Range	0℃~40℃
IP Rating	IP21
Product Material	Metal
Weight (lbs./kg)	48 kg
Dimension (in./mm.)	590*455*338mm
Display	LED power, fault, charge and discharge power

HOME ENERGY STORAGE

5kWh 100Ah Sunpak-S 5



Sunpak-S 5

- Wheel Design and Easy Mobility
- Space-saving and Efficient
- LCD Display

Scene Application

Solar Energy

Wind Energy

Residential Area

Industrial Area

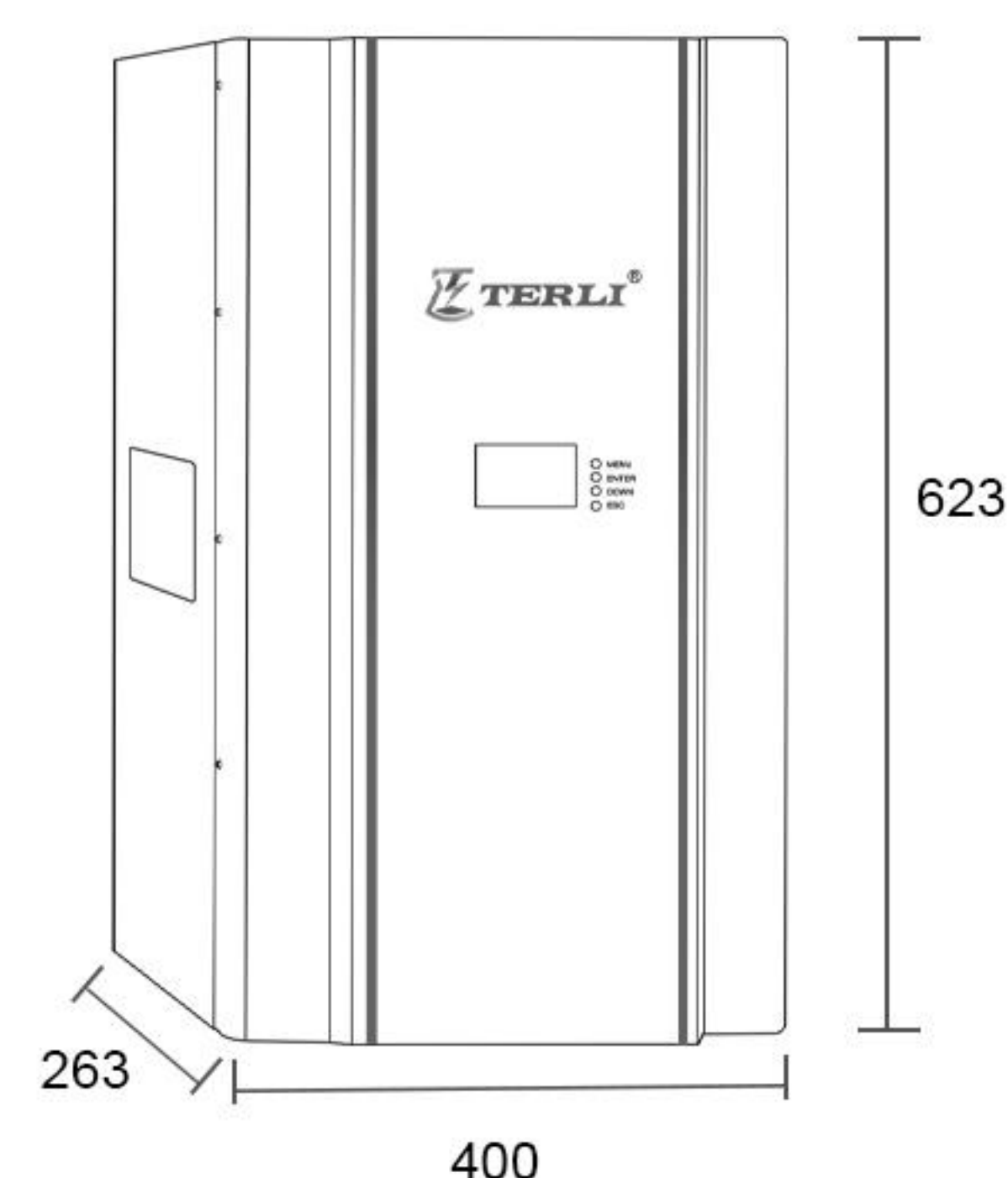
New Energy Vehicle

Technical Parameter

Project		Specification
Model	Sunpak-S	
Battery Type	LiFePO4	
Battery Module	Sunpak-S 5	
Battery Capacity (Ah)	100	
Nominal Battery Energy (kWh)	5.1	
Max Output Power (kW)	5.1	
Net Weight (Kg)	48	
Dimension (L*W*H mm)	647*468*148	
Working Voltage (V)	47~55	
Operating Temp. Range (°C)	-20~50	
Calendar Life (Cycles)	6000@25°C,90% DOD	
Nominal Voltage (V)	51.2	
Protection Level	IP54	
Communication	CAN/RS485	
Certification & Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited	
Monitoring & Protection	BMS	
HMI	Color Touch Screen	

HOME ENERGY STORAGE

5kWh 100Ah Gaia-S 5



Gaia-S 5

- Efficient Miniaturization
- Smaller and Intelligent
- LCD Display



Scene Application



Solar Energy



Wind Energy



Residential Area



Industrial Area



New Energy Vehicle

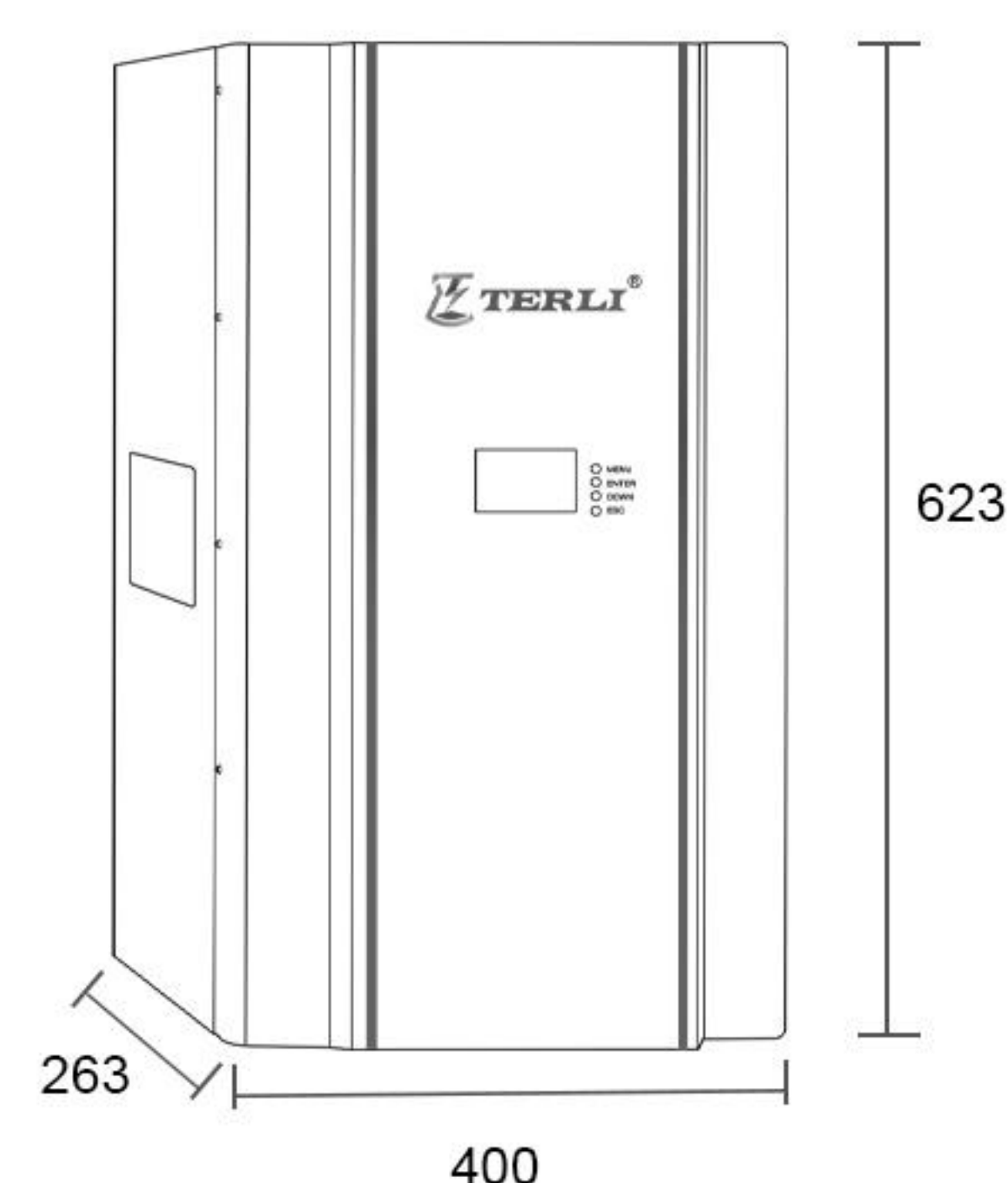


Technical Parameter

Project	Specification
Model	Gaia-S
Battery Type	LiFePO4
Battery Module	Gaia-S 5
Battery Capacity (Ah)	100
Nominal Battery Energy (kWh)	5.1
Max Output Power (kW)	5.1
Net Weight (Kg)	50.5
Dimension (L*W*H mm)	623*400*263
Working Voltage (V)	47~55
Operating Temp. Range (°C)	-20~50
Calendar Life (Cycles)	6000@25°C,90% DOD
Nominal Voltage (V)	51.2
Protection Level	IP54
Communication	CAN/RS485
Certification & Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited
Monitoring & Protection	BMS
HMI	LCD Screen

HOME ENERGY STORAGE

10kWh 200Ah Gaia-S 10



Gaia-S 10

- Efficient Miniaturization
- Smaller and Intelligent
- Long Life and Safety



Scene Application



Solar Energy



Wind Energy



Residential Area



Industrial Area



New Energy Vehicle

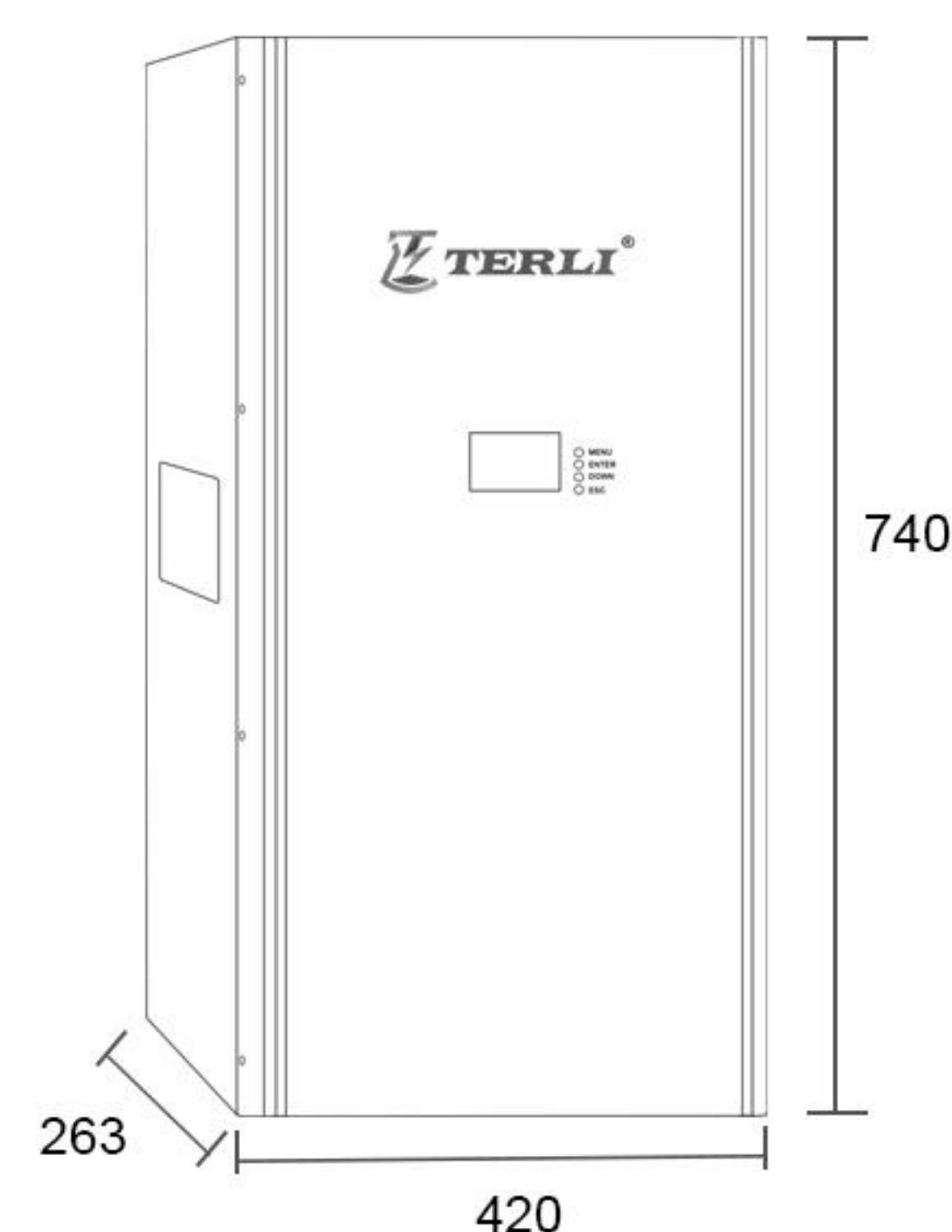


Technical Parameter

Project	Specification
Model	Gaia-S
Battery Type	LiFePO4
Battery Module	Gaia-S 10
Battery Capacity (Ah)	202
Nominal Battery Energy (kWh)	10.3
Max Output Power (kW)	10.3
Net Weight (Kg)	81.5
Dimension (L*W*H mm)	623*400*263
Working Voltage (V)	47~55
Operating Temp. Range (°C)	-20~50
Calendar Life (Cycles)	6000@25°C,90% DOD
Nominal Voltage (V)	51.2
Protection Level	IP54
Communication	CAN/RS485
Certification & Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited
Monitoring & Protection	BMS
HMI	LCD Screen

HOME ENERGY STORAGE

15kWh 300Ah Gaia-S 15



Gaia-S 15

- Efficient Miniaturization
- Smaller Package
- Versatile Utility



Scene Application



Solar Energy



Wind Energy



Residential Area



Industrial Area



New Energy Vehicle

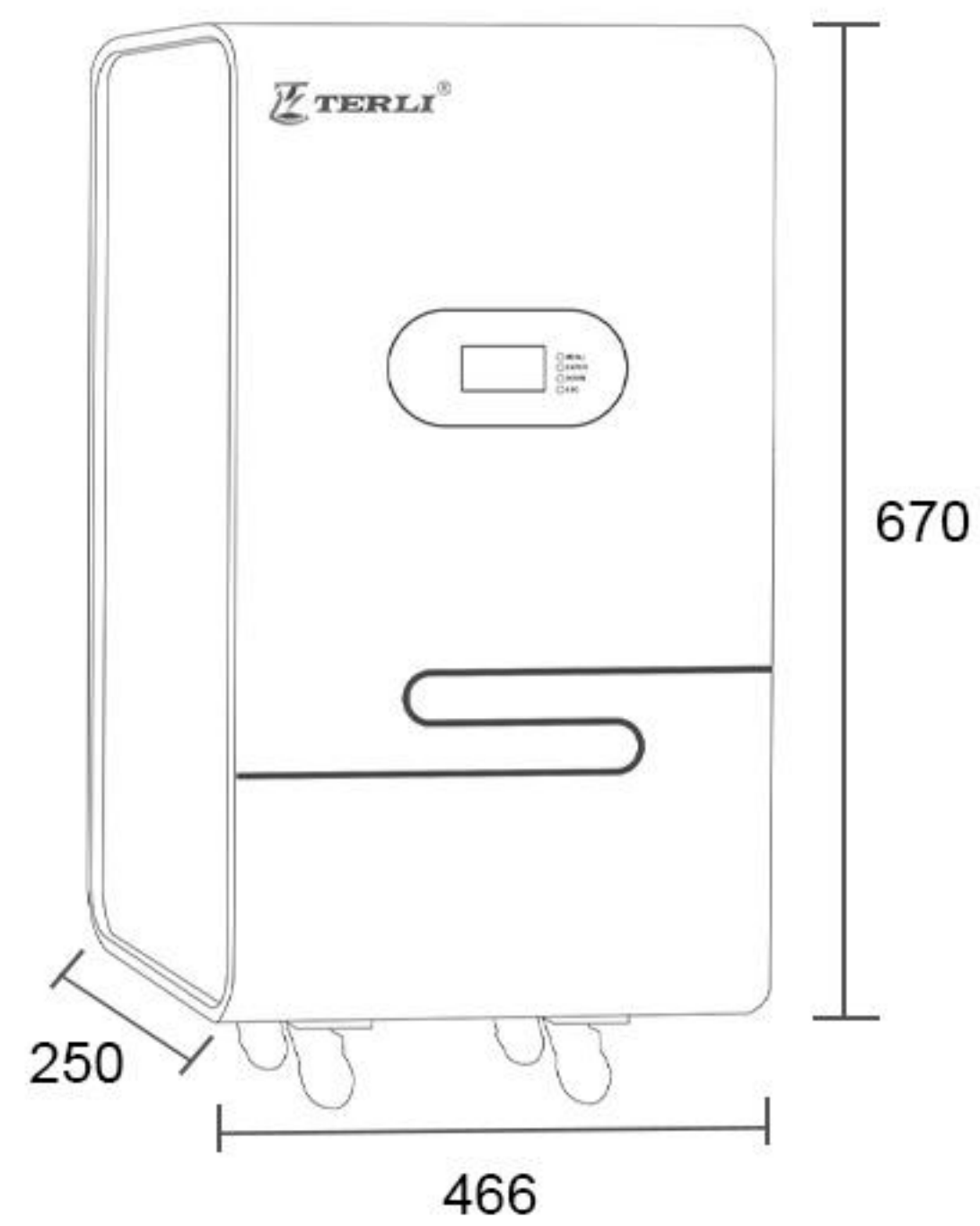
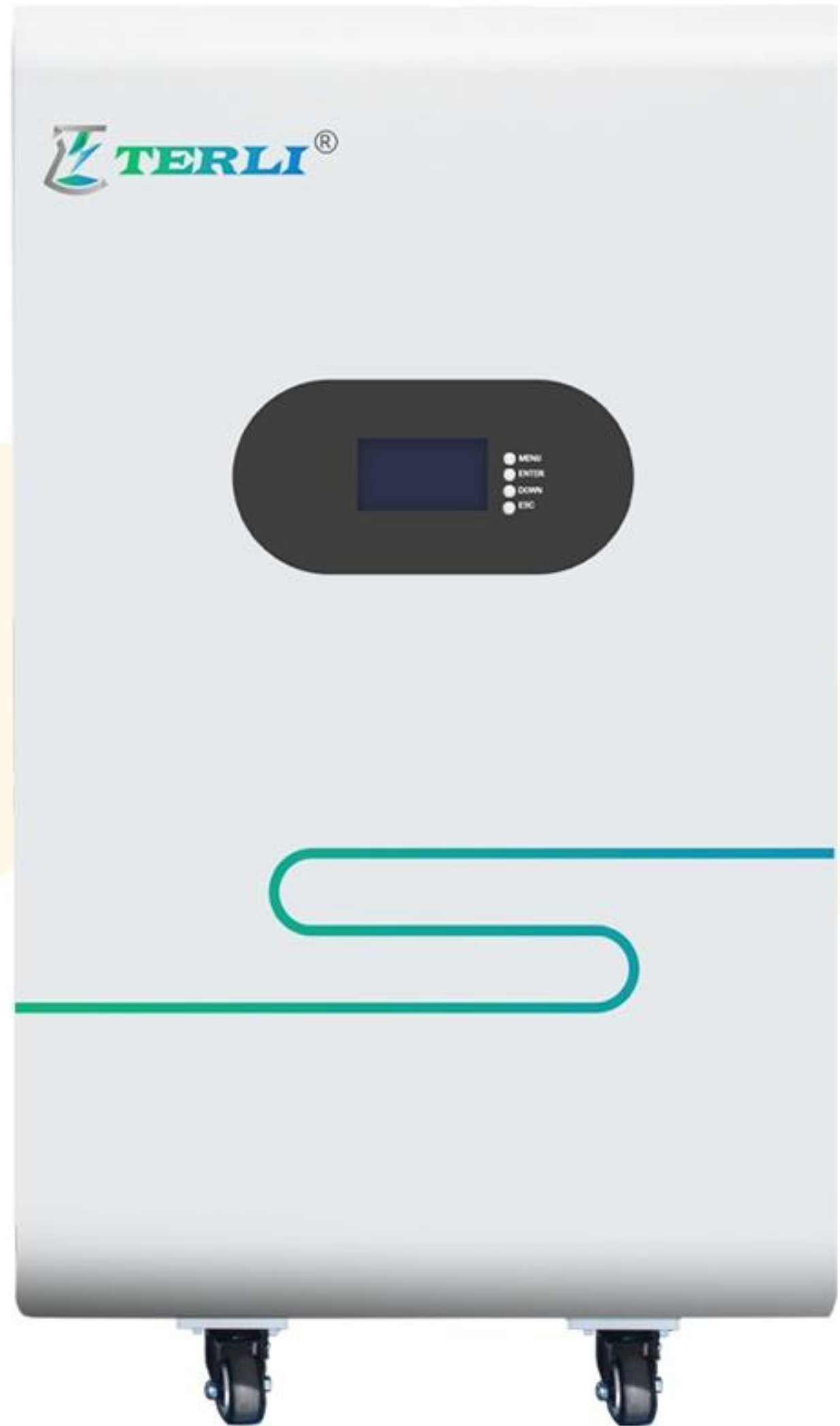


Technical Parameter

Project		Specification
Model	Gaia-S	
Battery Type	LiFePO4	
Battery Module	Gaia-S 15	
Battery Capacity (Ah)	300	
Nominal Battery Energy (kWh)	15.3	
Max Output Power (kW)	15.3	
Net Weight (Kg)	110	
Dimension (L*W*H mm)	740*420*263	
Working Voltage (V)	47~55	
Operating Temp. Range (°C)	-20~50	
Calendar Life (Cycles)	6000@25°C,90% DOD	
Nominal Voltage (V)	51.2	
Protection Level	IP54	
Communication	CAN/RS485	
Certification & Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited	
Monitoring & Protection	BMS	
HMI	LCD Screen	

HOME ENERGY STORAGE

10kWh 200Ah Sunpak-V 10



Sunpak-V 10

- Wheel Design and Easy Mobility
- Space-saving and Efficient
- LCD Display

Scene Application

Solar Energy

Wind Energy

Residential Area

Industrial Area

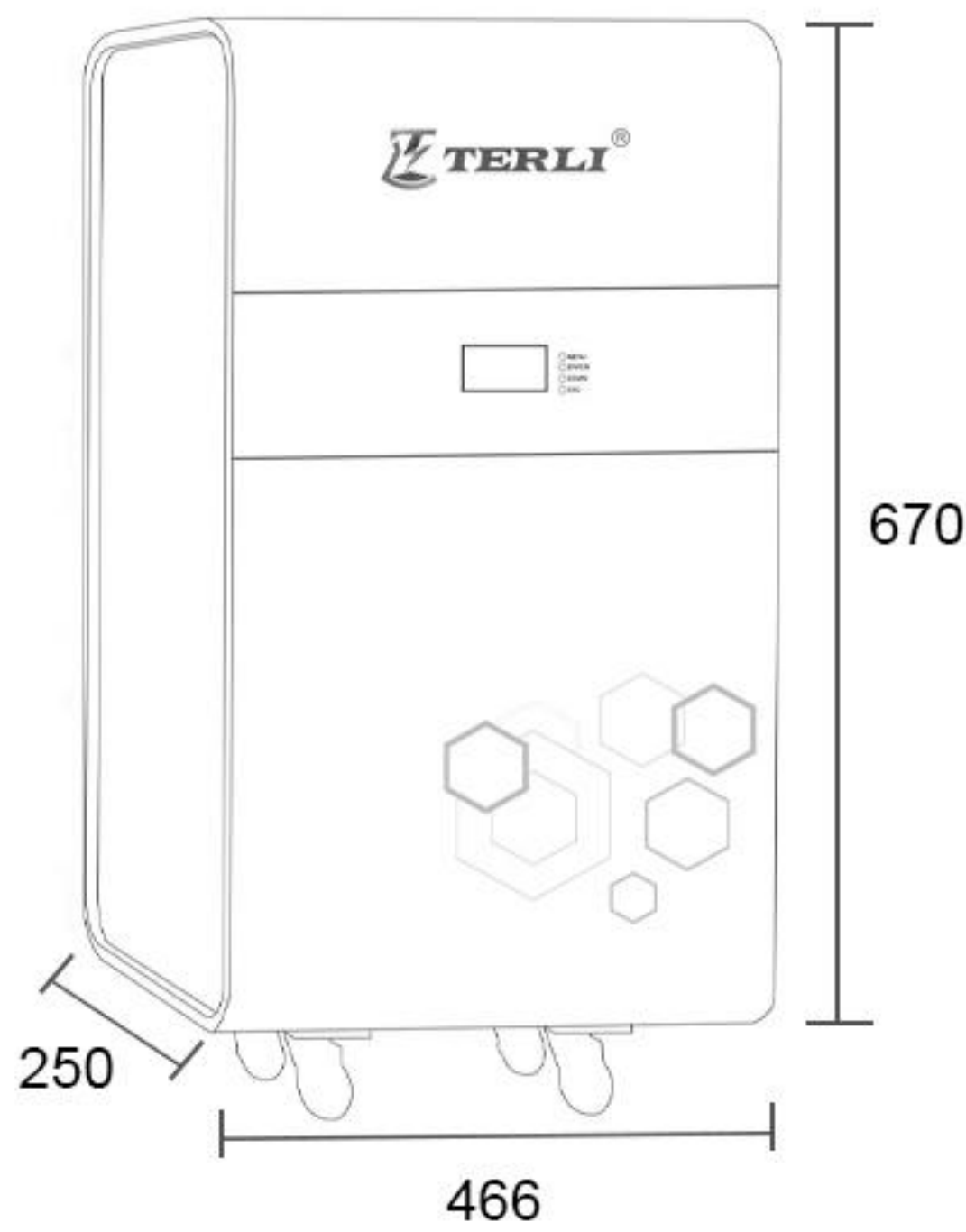
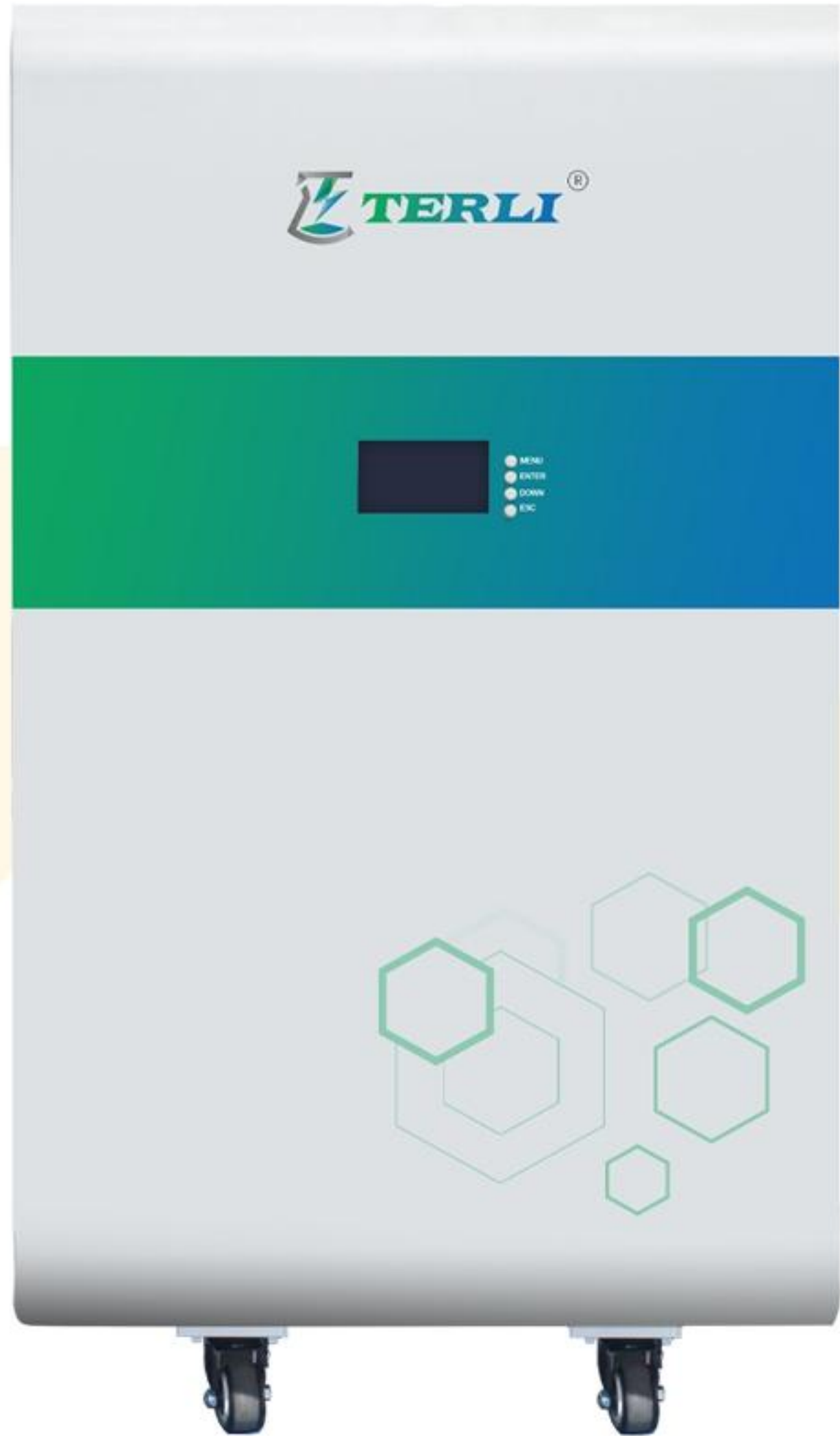
New Energy Vehicle

Technical Parameter

Project		Specification
Model	Sunpak-V	
Battery Type	LiFePO4	
Battery Module	Sunpak-V 10	
Battery Capacity (Ah)	202	
Nominal Battery Energy (kWh)	10.3	
Max Output Power (kW)	10.3	
Net Weight (Kg)	91	
Dimension (L*W*H mm)	670*466*250	
Working Voltage (V)	47~55	
Operating Temp. Range (°C)	-20~50	
Calendar Life (Cycles)	6000@25°C,90% DOD	
Nominal Voltage (V)	51.2	
Protection Level	IP54	
Communication	CAN/RS485	
Certification & Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited	
Monitoring & Protection	BMS	
HMI	LCD Screen	

HOME ENERGY STORAGE

10kWh 200Ah Sunpak-V 10



Sunpak-V 10

- Wheel Design and Easy Mobility
- Space-saving and Efficient
- LCD Display

Scene Application



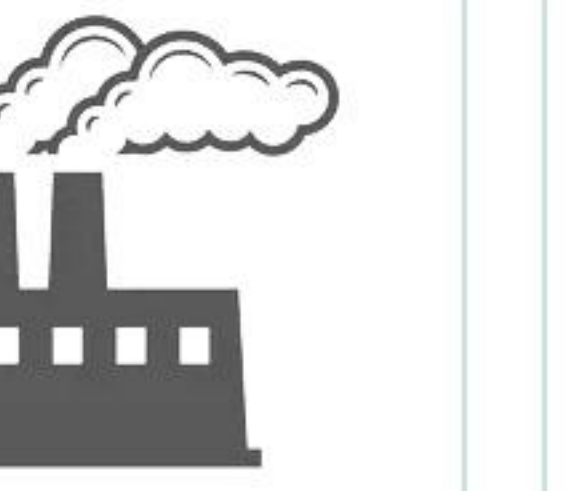
Solar Energy



Wind Energy



Residential Area



Industrial Area



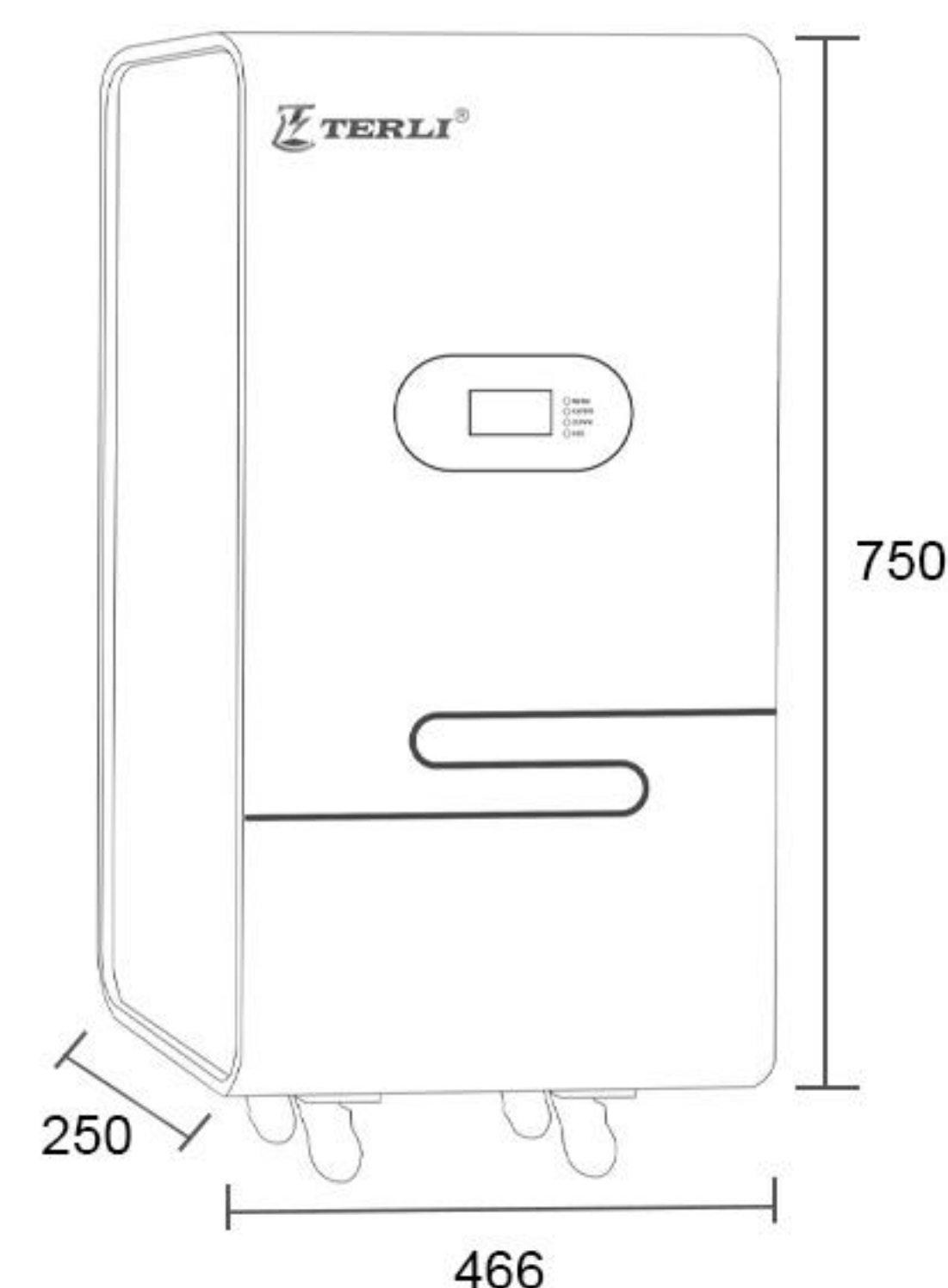
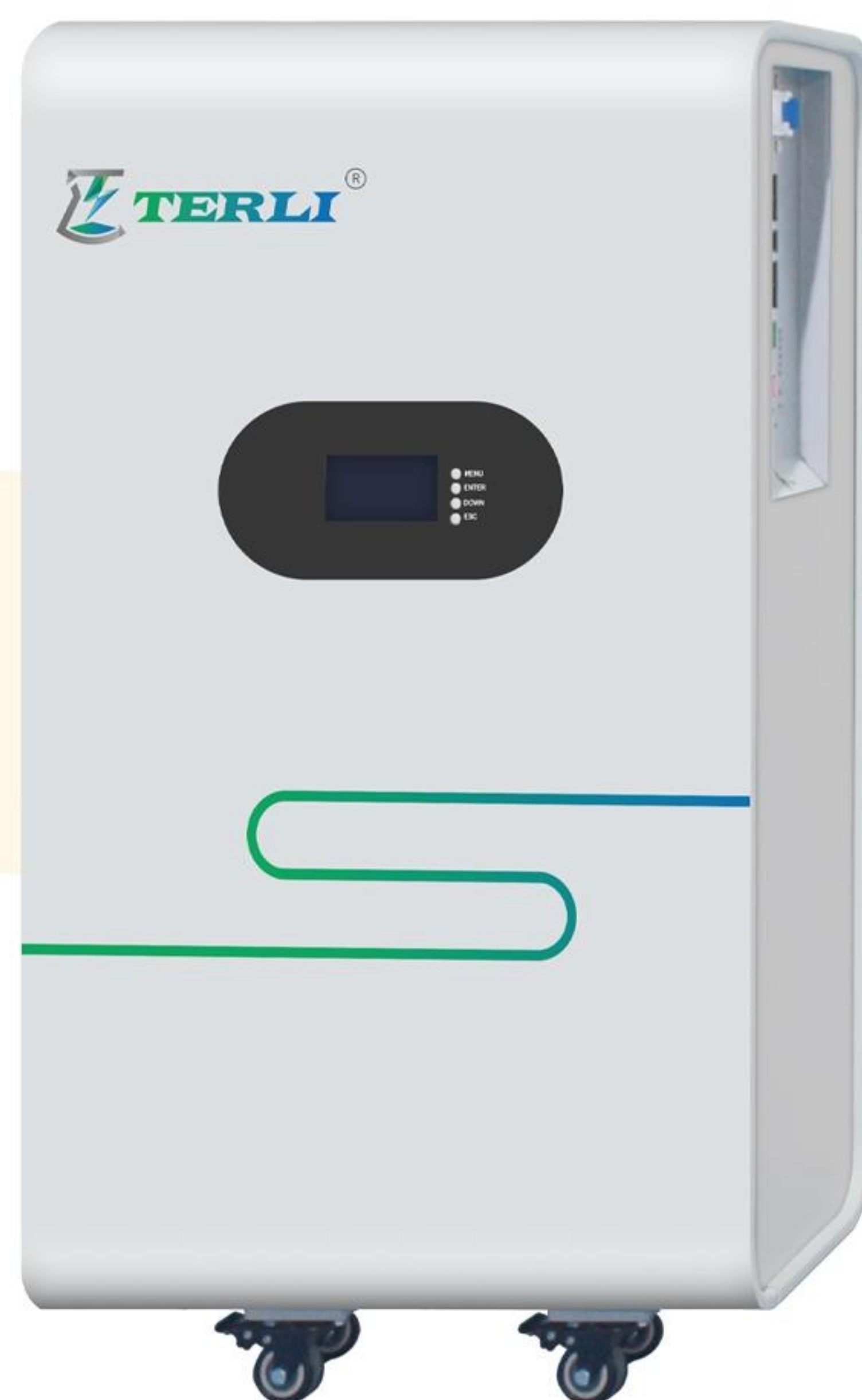
New Energy Vehicle

Technical Parameter

Project		Specification
Model	Sunpak-V	
Battery Type	LiFePO4	
Battery Module	Sunpak-V 10	
Battery Capacity (Ah)	202	
Nominal Battery Energy (kWh)	10.3	
Max Output Power (kW)	10.3	
Net Weight (Kg)	91	
Dimension (L*W*H mm)	670*466*250	
Working Voltage (V)	47~55	
Operating Temp. Range (°C)	-20~50	
Calendar Life (Cycles)	6000@25°C,90% DOD	
Nominal Voltage (V)	51.2	
Protection Level	IP54	
Communication	CAN/RS485	
Certification & Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited	
Monitoring & Protection	BMS	
HMI	LCD Screen	

HOME ENERGY STORAGE

15kWh 300Ah Sunpak-V 15



Sunpak-V 15

- Wheel Design and Easy Mobility
- Space-saving and Efficient
- LCD Display



Scene Application



Solar Energy



Wind Energy



Residential Area



Industrial Area



New Energy Vehicle

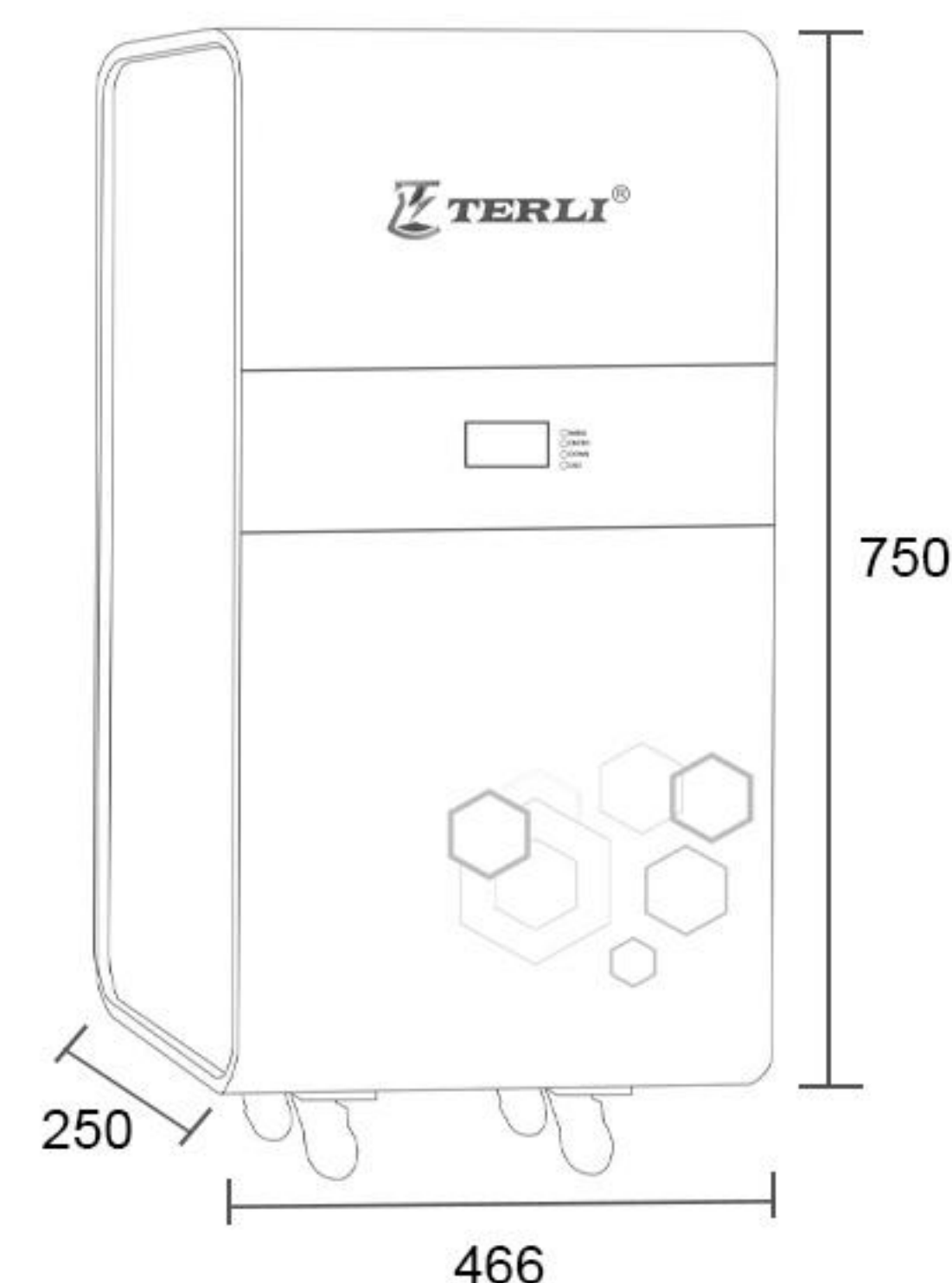


Technical Parameter

Project	Specification
Model	Sunpak-V
Battery Type	LiFePO4
Battery Module	Sunpak-V 15
Battery Capacity (Ah)	300
Nominal Battery Energy (kWh)	15.3
Max Output Power (kW)	15.3
Net Weight (Kg)	113
Dimension (L*W*H mm)	750*466*250
Working Voltage (V)	47~55
Operating Temp. Range (°C)	-20~50
Calendar Life (Cycles)	6000@25°C,90% DOD
Nominal Voltage (V)	51.2
Protection Level	IP54
Communication	CAN/RS485
Certification & Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited
Monitoring & Protection	BMS
HMI	LCD Screen

HOME ENERGY STORAGE

15kWh 300Ah Sunpak-V 15



Sunpak-V 15

- Wheel Design and Easy Mobility
- Space-saving and Efficient
- LCD Display



Scene Application



Solar Energy



Wind Energy



Residential Area



Industrial Area



New Energy Vehicle

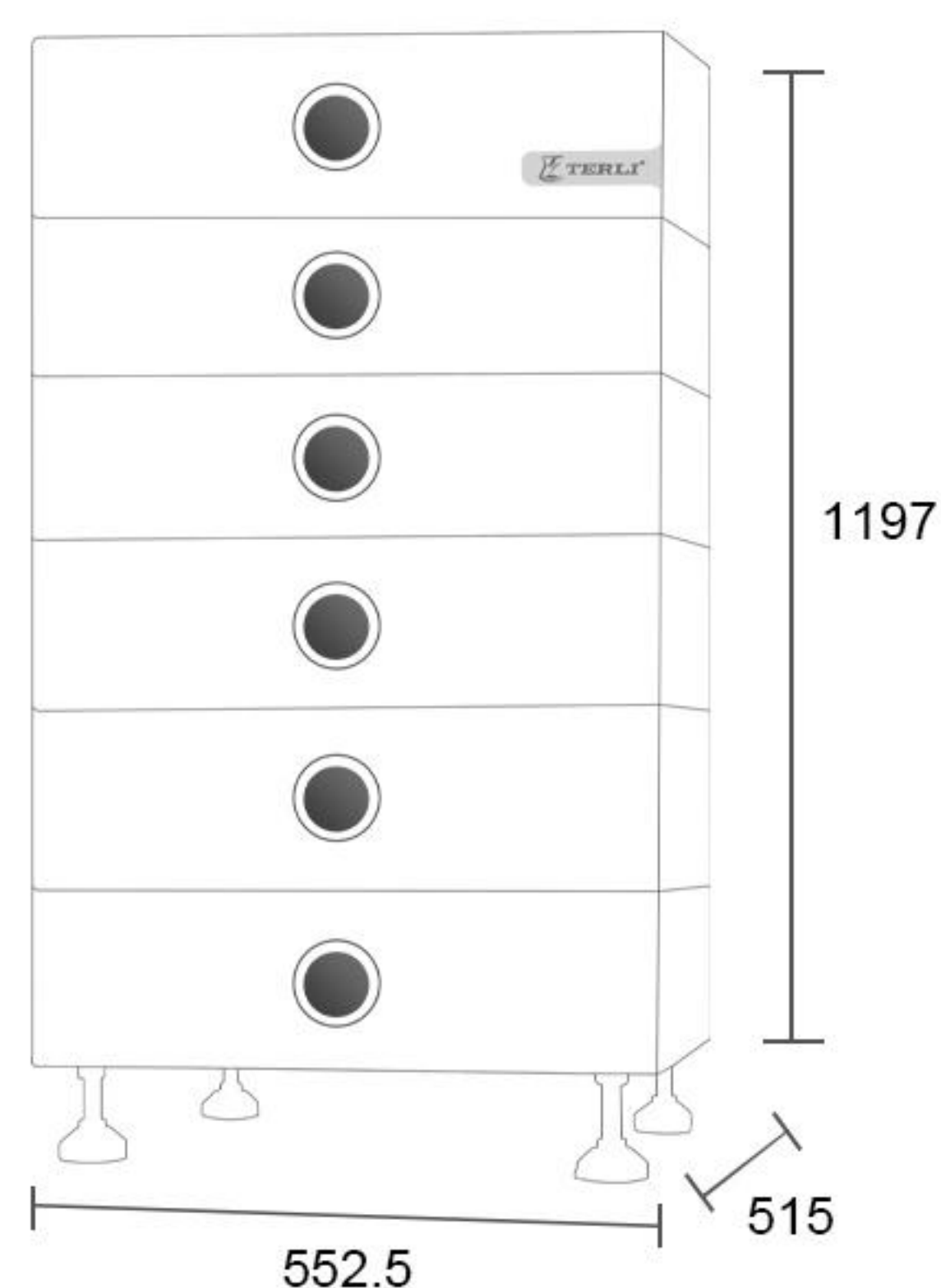


Technical Parameter

Project	Specification
Model	Sunpak-V
Battery Type	LiFePO4
Battery Module	Sunpak-V 15
Battery Capacity (Ah)	300
Nominal Battery Energy (kWh)	15.3
Max Output Power (kW)	15.3
Net Weight (Kg)	113
Dimension (L*W*H mm)	750*466*250
Working Voltage (V)	47~55
Operating Temp. Range (°C)	-20~50
Calendar Life (Cycles)	6000@25°C,90% DOD
Nominal Voltage (V)	51.2
Protection Level	IP54
Communication	CAN/RS485
Certification & Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited
Monitoring & Protection	BMS
HMI	LCD Screen

COMMERCIAL ENERGY STORAGE

Low-voltage All-in-one Battery TL-LVS52



TL-LVS52

- Integrated with Inverter
- Space Saving
- Ability to Stack 6 Batteries
- LCD Display



Scene Application



Solar Energy



Wind Energy



Residential Area



Industrial Area



New Energy Vehicle

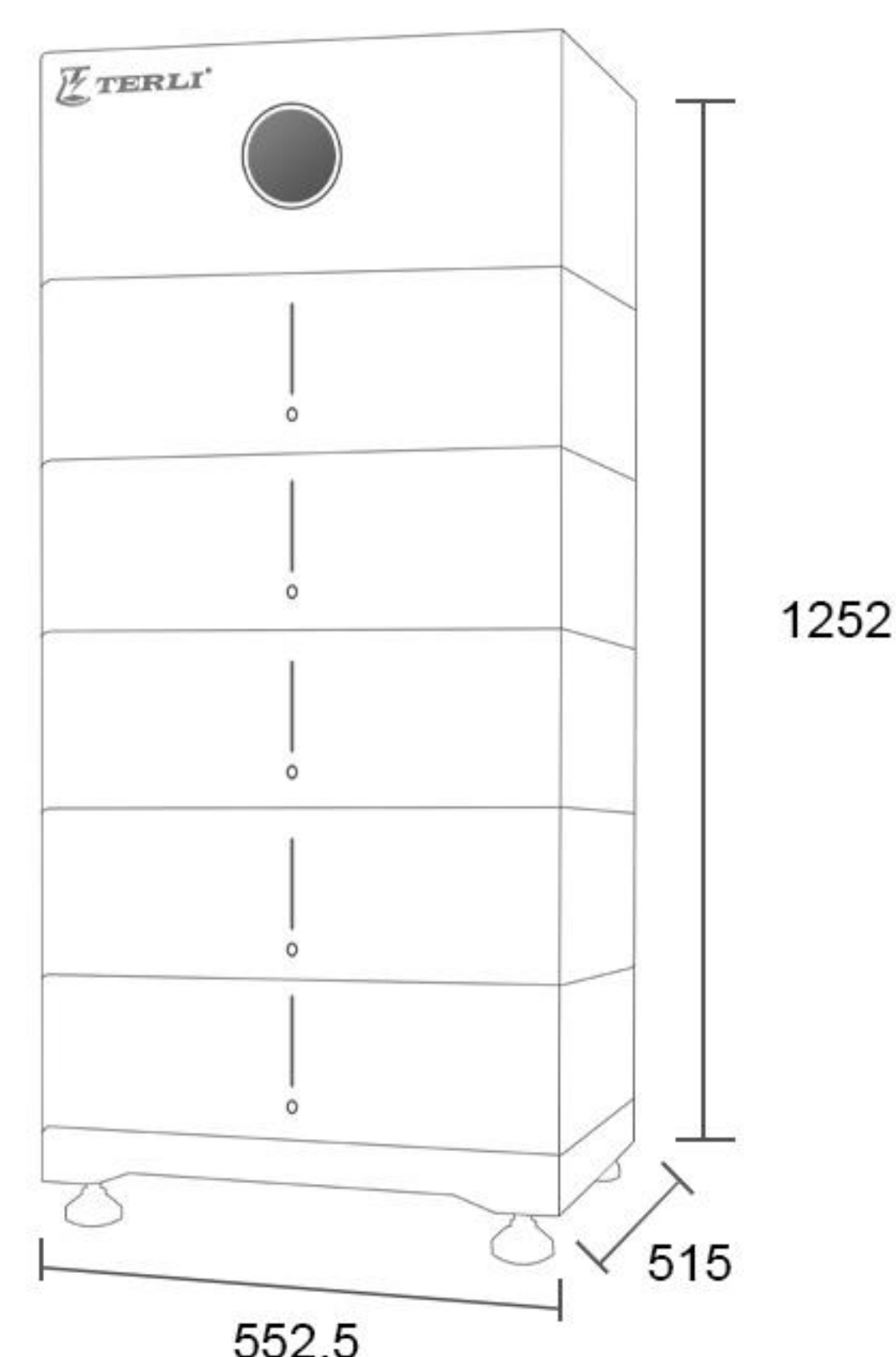


Technical Parameter

Project	Specification					
	LVS(M1+S1)	LVS(M1+S2)	LVS(M1+S3)	LVS(M1+S4)	LVS(M1+S5)	LVS(M1+S6)
Module Type	102Ah-16S1P					
Cycle Life	≥4000 cycles @80%DOD					
Display	LCD screen					
Power Consumption	1%/M					
Rated Capacity (Kwh)	10.44	15.66	20.88	26.1	31.32	36.54
Rated Voltage (V)	51.2					
Working Voltage (V)	44.8~57.6					
Recommended Discharge Current (A)	200					
Rated charge and discharge power (kW)	10.24					
Maximum charge and discharge current (A)	250					
Peak discharge current (A)	250@30S					
Battery pack cycle efficiency (%)	≥97%					
Discharge depth (%)	90					
Operating temperature (°C)	Charge : 0~55 Discharge : -20~60					
Storage Temperature Range (°C)	0~40					
Dimension (W*D*H./mm.)	552.5*515*557	552.5*515*717	552.5*515*877	552.5*515*1037	552.5*515*1197	552.5*515*1357
Weight (kg)	150±1	200±1.5	250±1.5	299±1.5	348±2	398±2
Protection Level	IP65					
Installation	Floor stacking					

COMMERCIAL ENERGY STORAGE

High-voltage All-in-one Battery TL-HVS52



TL-HVS52

- Integrated with Inverter
- Space Saving
- Ability to Stack 6 Batteries
- LCD Display



Scene Application



Solar Energy



Wind Energy



Residential Area



Industrial Area



New Energy Vehicle



Technical Parameter

Project	Specification					
	HVS(M1+S1)	HVS(M1+S2)	HVS(M1+S3)	HVS(M1+S4)	HVS(M1+S5)	HVS(M1+S6)
Module Type	102Ah-16S1P					
Cycle Life	≥4000 cycles @80%DOD					
Display	LCD screen					
Power Consumption	1%/M					
Rated Capacity (Kwh)	10.44	15.66	20.88	26.1	31.32	36.54
Rated Voltage (V)	102.4	153.6	204.8	256	307.2	358.4
Working Voltage (V)	89.6~115.2	134.4~172.8	179.2~230.4	224~288	268.8~345.6	313.6~403.2
Recommended Discharge Current (A)	50					
Maximum charge and discharge current (A)	100					
Peak discharge current (A)	100@30S					
Battery pack cycle efficiency (%)	≥97%					
Discharge depth (%)	90					
Operating temperature (°C)	Charge : 0~55 Discharge : -20~60					
Storage Temperature Range (°C)	0~40					
Dimension (W*D*H./mm.)	552.5*515*612	552.5*515*772	552.5*515*932	552.5*515*1092	552.5*515*1252	552.5*515*1312
Weight (kg)	158.8±1	208.1±1.5	257.4±1.5	306.7±1.5	356±2	405.3±2
Protection Level	IP65					
Installation	Floor stacking					

COMMERCIAL ENERGY STORAGE

Rack Mount Battery TL-48100



TL-48100

- Integrated with Inverter
- Smaller Size, Stackable
- Higher Energy Density
- Easy Installation

Technical Parameter

Project	Single Specification Parameters
Rated Voltage	51.2V
Rated Capacity	102Ah
Rated Power	5.22Kwh
Grouping Method	16S1P
Cycle Life	≥4000 cycles @80%DOD
Power Consumption	1%/M
Charging Efficiency	≥97%
Discharging Efficiency	≥98%
Communication	CAN
Recommended Charging Voltage	57.6V
Recommended Charging Current	50A
Charging Cut-off Voltage	58.4V
Charging Cut-off Current	100A
Recommended Discharge Current	50A
Maximum Instantaneous Discharge Current	100A
Cut-off Voltage	44.8V
Charging Temperature Range	0℃~55℃
Discharging Temperature Range	-20℃~60℃
Storage Temperature Range	0℃~40℃
IP Rating	IP40
Product Material	Metal
Weight (lbs./kg)	46 kg
Dimension (in./mm.)	482.6*132*450mm

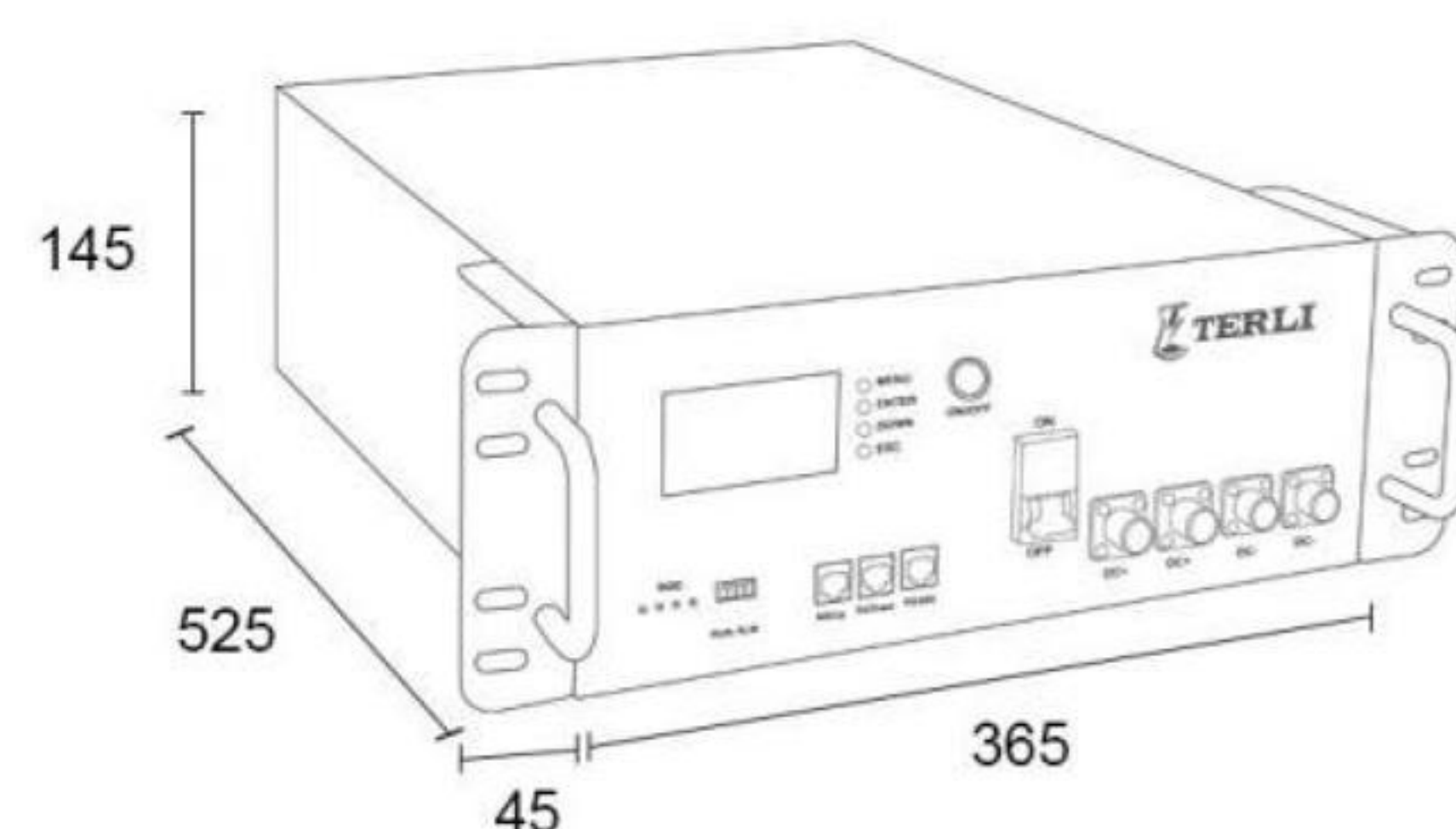
LARGE-CAPACITY ENERGY STORAGE SYSTEM

5kWh 100Ah Rack Mount Lifepo4 Battery



Rack battery

Rack Mount lifepo4 Battery



- Smaller Size
- Higher Efficiency
- Higher Energy Density
- Easy Installation
- Use Lithium Iron Phosphate Battery



Scene Application



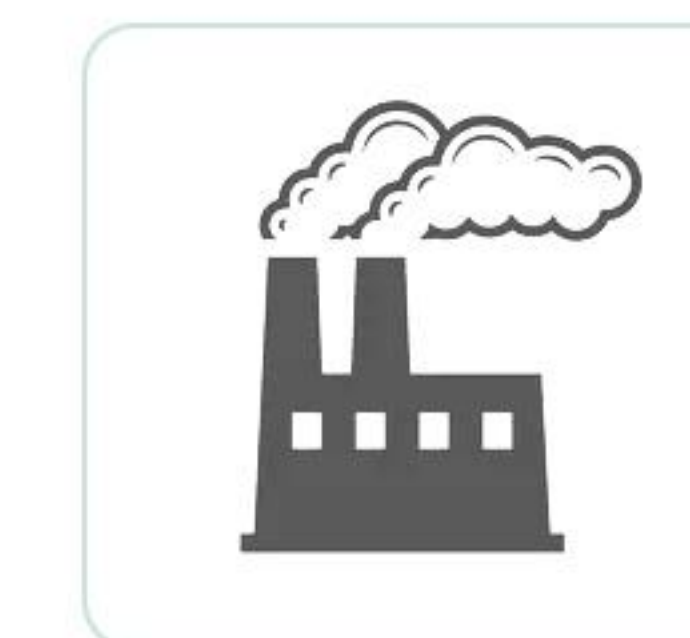
Solar Energy



Wind Energy



Residential Area



Industrial Area

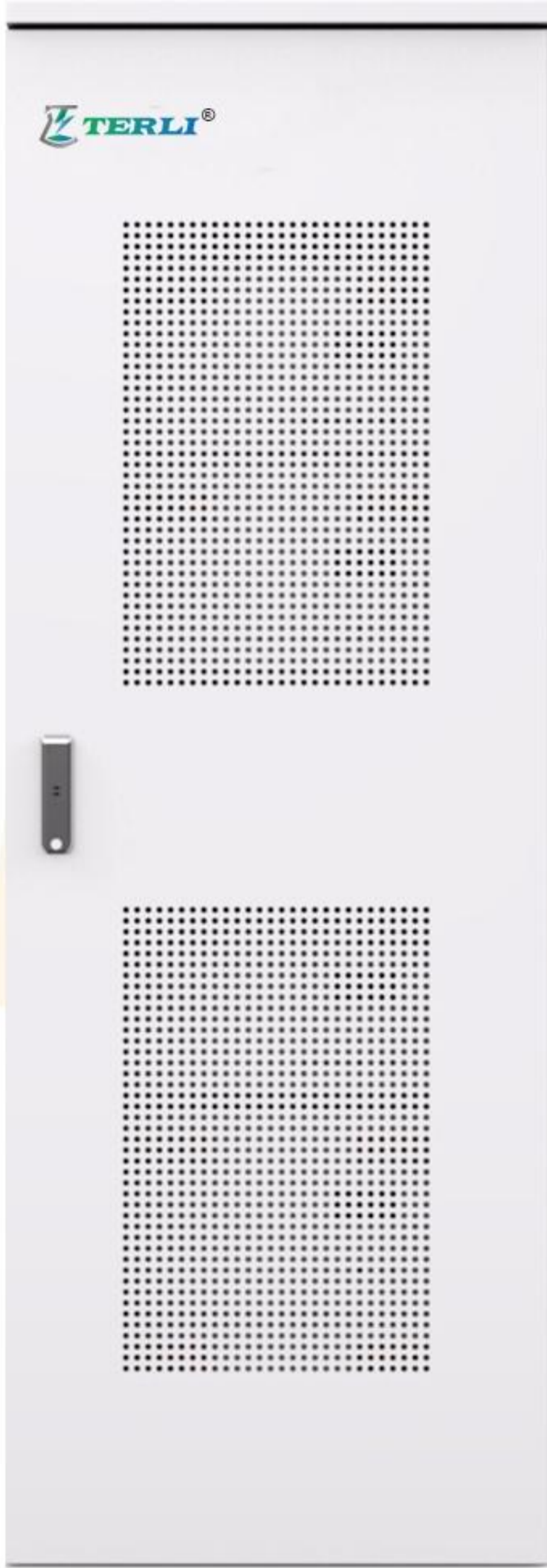


Technical Parameter

Project	Specification
Model	Rack Mount Lifepo4 Battery
Battery Type	LiFePO4
Battery Module	5kWh
Battery Capacity (Ah)	100
Nominal Battery Energy (kWh)	5.1
Max Output Power (kW)	5.1
Net Weight (Kg)	53
Dimension (H*W*D mm)	19 inch 5U
Working Voltage (V)	47~55
Operating Temp.Range(°C)	-20~50
Calendar Life (Cycles)	6000@25°C , 90% DOD
Nominal Voltage (V)	51.2
Protection Level	IP54
Communication	CAN/RS485
Certification&Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited
Monitoring & Protection	BMS
HMI	LCD Screen

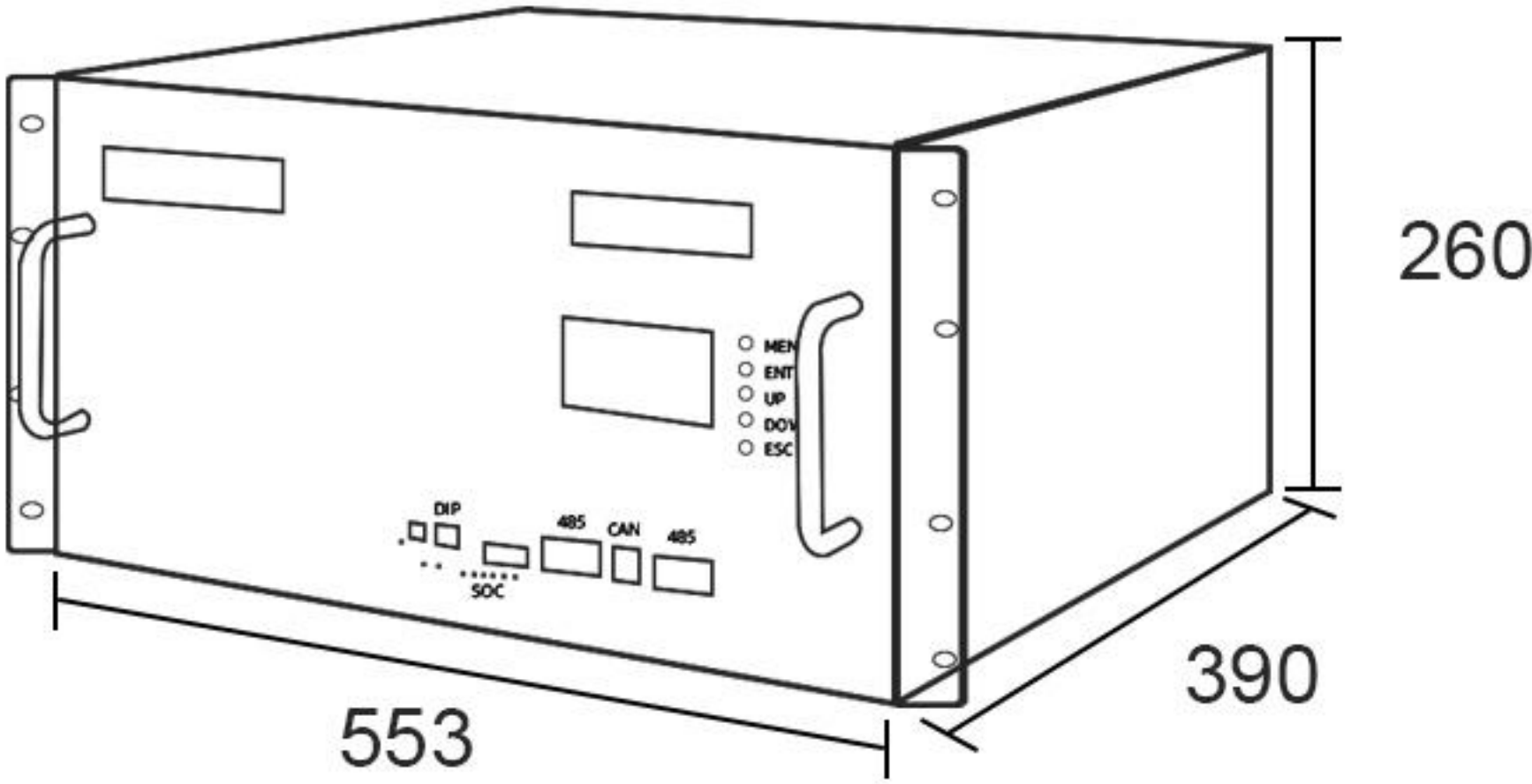
LARGE-CAPACITY ENERGY STORAGE SYSTEM

10kWh 200A Telecom Battery



Telecom Battery

- Smaller Size
- Higher Efficiency
- Higher Energy Density
- Easy Installation
- Use Lithium Iron Phosphate Battery



Scene Application



Solar Energy



Wind Energy



Residential Area



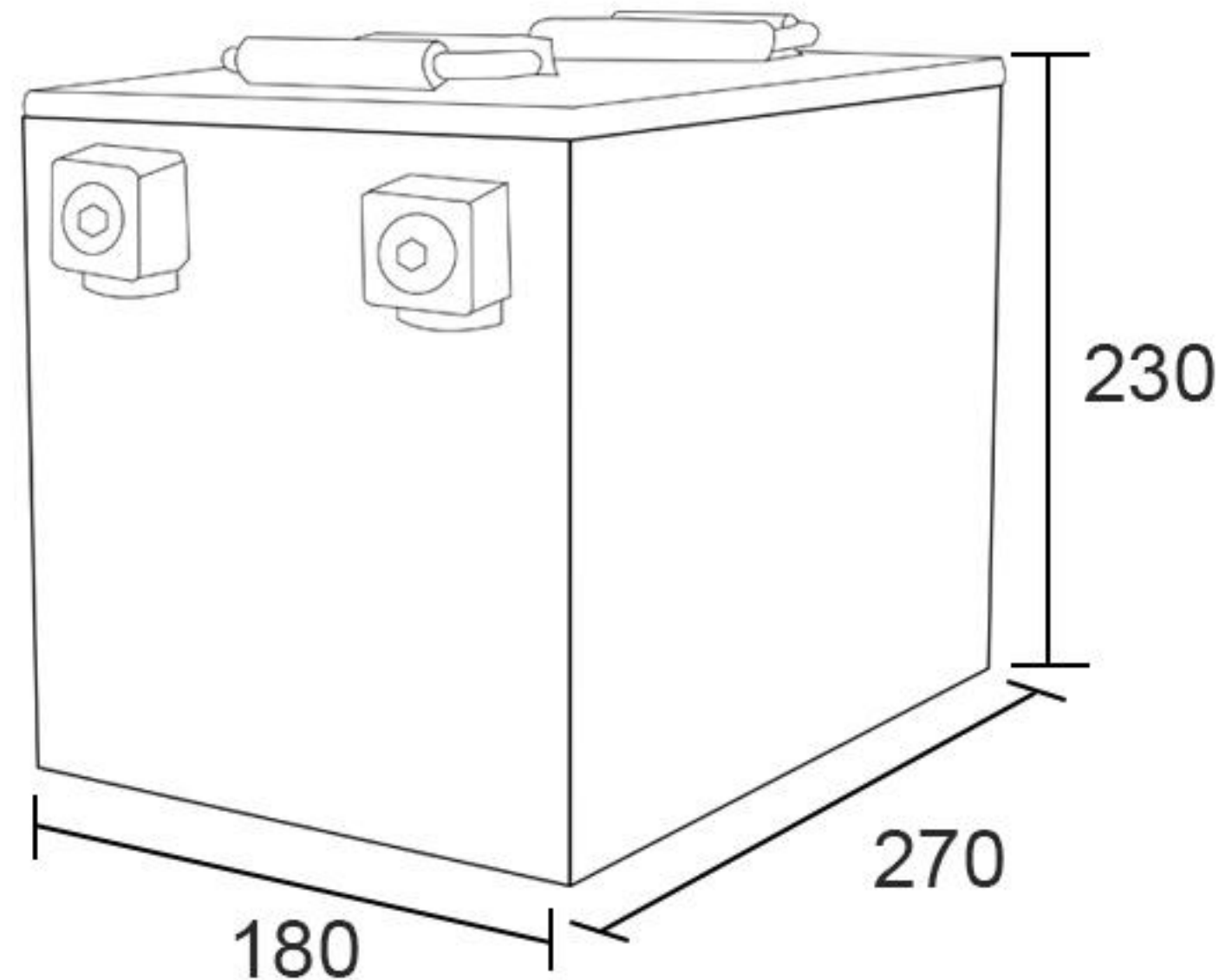
Industrial Area

Technical Parameter

Project		Specification	
Model		Telecom Battery	
Battery Type		LiFePO4	
Battery Module		10kWh	
Battery Capacity (Ah)		202	
Nominal Battery Energy (kWh)		10.3	
Max Output Power (kW)		10.3	
Net Weight (Kg)		83	
Dimension (H*W*D mm)		19 inch 6U	
Working Voltage (V)		47~55	
Operating Temp.Range(°C)		-20~50	
Calendar Life (Cycles)		6000@25°C , 90% DOD	
Nominal Voltage (V)		51.2	
Protection Level		IP54	
Communication		CAN/RS485	
Certification&Safety Standard		TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited	
Monitoring & Protection		BMS	
HMI		LCD Screen	

VEHICLE ENERGY STORAGE

12V 24V 48V Battery 12V



12V

- High Green Performance
- Wide Operating Temperature Range
- Long Cycle Life
- High Energy



Scene Application



Forklift



Ship



Residential Area



Industrial Area

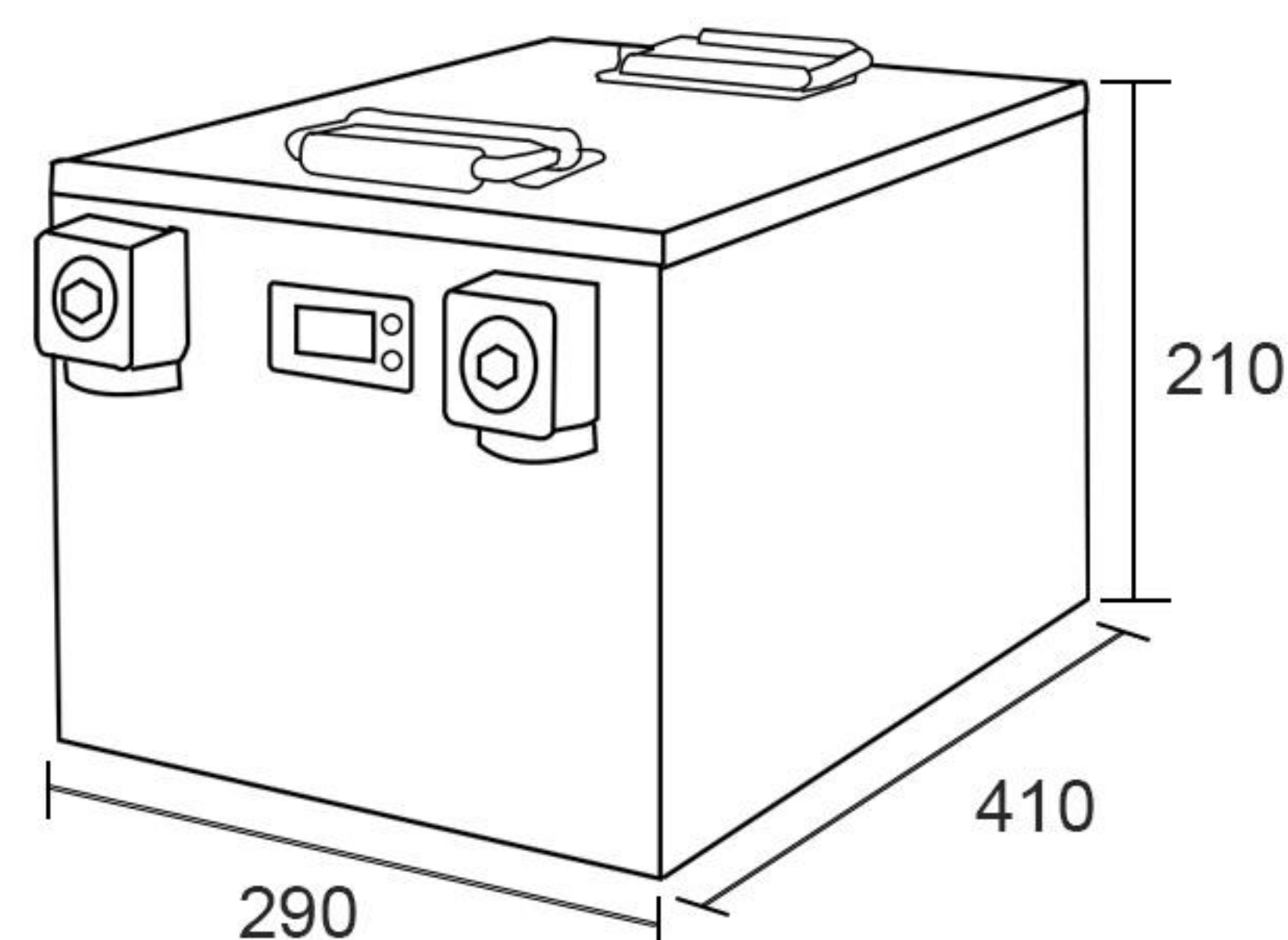


Technical Parameter

Project	Specification		
Model	12V		
Battery Type	LiFePO4		
Battery Module	TY-12-100	TY-12-150	TY-12-200
Battery Capacity (Ah)	100	150	200
Nominal Battery Energy (kWh)	1.2	1.8	2.4
Nominal Voltage (V)	12.8		
Normal Output Current (A)	50	75	100
Weight(Kg)	12.16	15.5	18.9
Dimension (L*W*H mm)	270*170*230	240*205*190	270*180*230
Package Dimension (L*W*H mm)	310*210*270	280*245*230	310*220*280
Working Voltage (V)	11.2~14.6		
Operating Temp.Range(°C)	-20~50		
Calendar Life (Cycles)	6000@25°C , 90% DOD		
Protection Level	IP54		
Terminal	Anderson Or Other		
Certification&Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited		
Monitoring & Protection	BMS		

VEHICLE ENERGY STORAGE

12V 24V 48V Battery 24V



24V

- ⬡ High And Low Temperature Adaptability
- ⬡ High Power Tolerance
- ⬡ Strong Charge Retention Ability



Scene Application



Forklift



Ship



Residential Area



Industrial Area



Technical Parameter

Project	Specification	
Model	24V	
Battery Type	LiFePO4	
Battery Module	TY-24-150	TY-24-200
Battery Capacity (Ah)	150	200
Nominal Battery Energy (kWh)	3.6	4.8
Nominal Voltage (V)	25.6	25.6
Normal Output Current (A)	75	100
Weight(Kg)	29.8	36
Dimension (L*W*H mm)	430*210*210	410*290*210
Package Dimension (L*W*H mm)	470*250*250	450*330*330
Working Voltage (V)	22.4~29.2	
Operating Temp.Range(°C)	-20~50	
Calendar Life (Cycles)	6000@25°C , 90% DOD	
Protection Level	IP54	
Terminal	Anderson Or Other	
Certification&Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited	
Monitoring & Protection	BMS	

VEHICLE ENERGY STORAGE

12V 24V 48V Battery 48V



Scene Application



Forklift



Ship



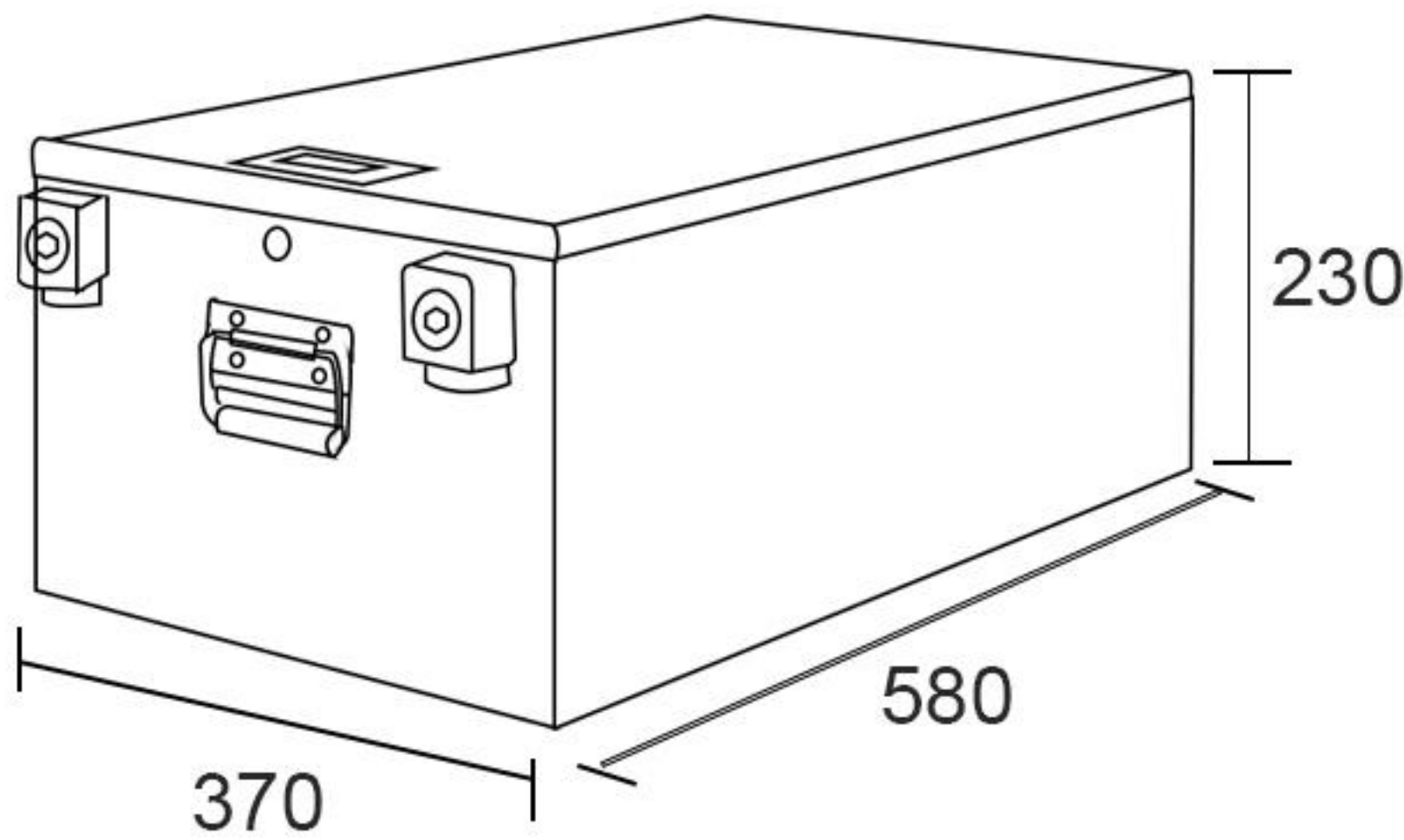
Residential Area



Industrial Area

Technical Parameter

Project		Specification
Model	48V	
Battery Type	LiFePO4	
Battery Module	TY-48-200	
Battery Capacity (Ah)	200	
Nominal Battery Energy (kWh)	9.6	
Nominal Voltage (V)	51.2	
Normal Output Current (A)	100	
Weight(Kg)	72	
Dimension (L*W*H mm)	580*370*230	
Package Dimension (L*W*H mm)	620*410*270	
Working Voltage (V)	44.8~58.4	
Operating Temp.Range(°C)	-20~50	
Calendar Life (Cycles)	6000@25°C , 90% DOD	
Protection Level	IP54	
Terminal	Anderson Or Other	
Certification&Safety Standard	TUV/CE/EN62619/IEC62040/UN38.3/CEC Accredited	
Monitoring & Protection	BMS	



- 48V
- High Green Performance
 - Long Cycle Life
 - Strong Charge Retention Ability