



E-bike battery



E-scooter battery



Motorcycle battery



Fork lift battery



Golf cart battery



E-boat battery



Power adapter



Energy storage

**TurnLife**

**2023**

**Energy storage series**

Premium Li-ion battery pack

100% customer satisfactory is our  
persistence goal



# PROFESSIONAL BATTERY PACK MANUFACTURER

No.55 Zimei Road, Zhongxin Suchu High-Tech Zone, Chuzhou City, Anhui, China

## Turnlife New Energy Co.,Ltd

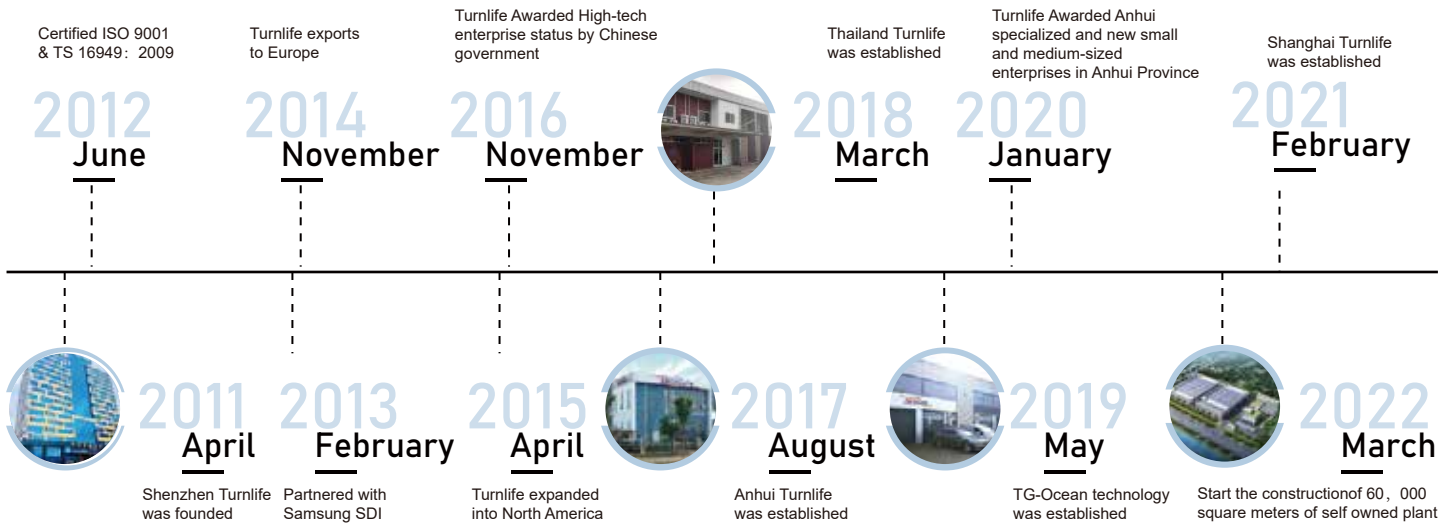
### ABOUT US



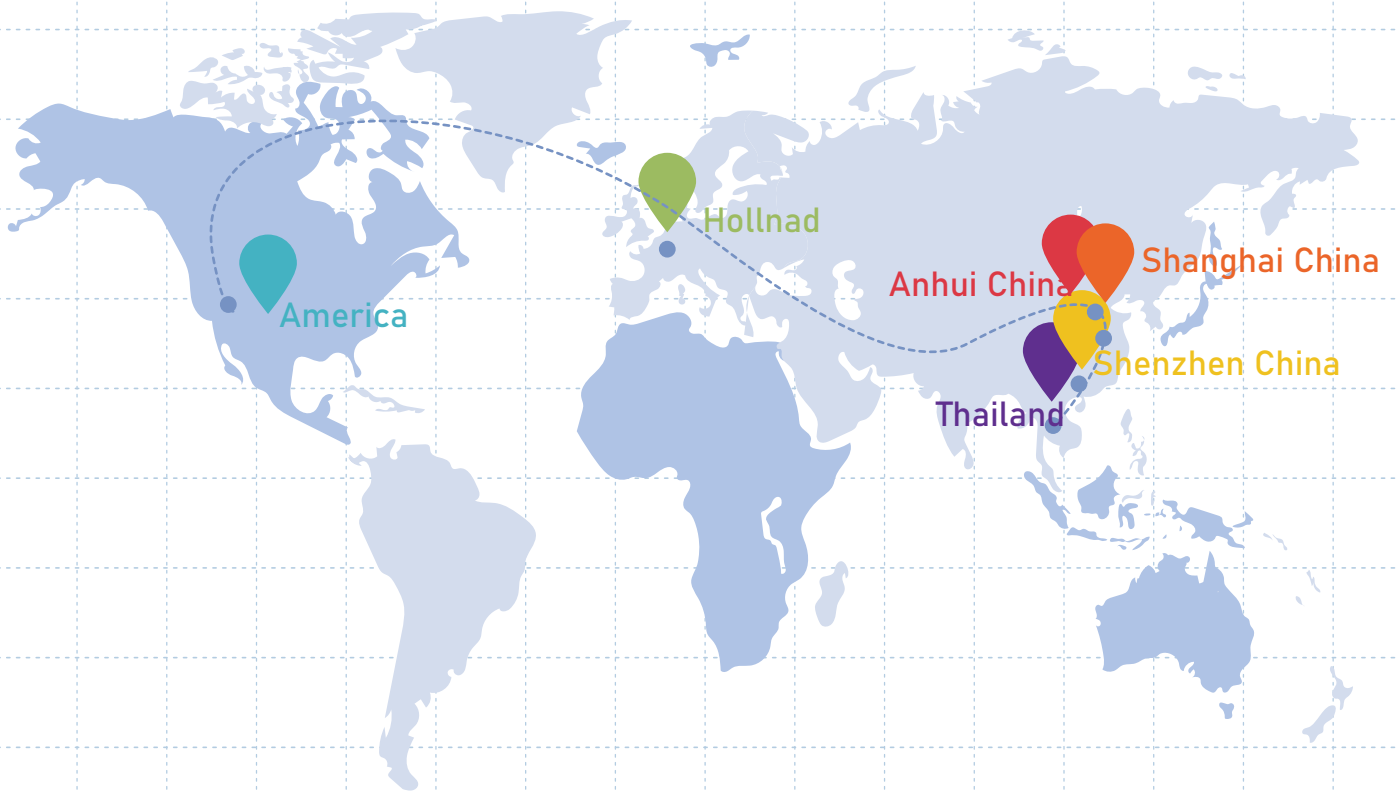
Turnlife Technology is a professional lithium battery high-tech enterprise integrating research and development, design, production, sales and after-sales service. Turnlife Technology was founded in Shenzhen on April 11, 2011. Over the past 10 years, our products have been exported to many overseas countries, and are trusted by consumers in Europe, America, Israel and other markets. With the development of Turnlife, at present, currently Chuzhou company as the core. with the Thailand factories abroad, the Netherlands Utrecht sales and service company and the United States branch, In 2021 set up a research and development and international trade branch in Shanghai; Now, the number of employees is nearly 200 people, the annual sales of hundreds of millions.

At present, the main products of Turnlife are lithium batteries for two-wheelers and lithium batteries for golf carts. Turnlife has accumulated the technology and market foundation on the integration of two-wheelers. It adheres to the enterprise development concept of "innovation,service and sharing" and the quality policy of "pursuit of first-class", and pays attention to building the core competitiveness and service brand. With 100% customer satisfactory is our presistant goal, as Turnlife in the new energy industry based on the base and development goals.

# COMPANY HISTORY



# TURNLIFE GROUP



- ★ **Anhui China**  
Headquarters
- **Shanghai China**  
Research and development center
- **Shenzhen China**  
Factories & Research and development center
- **Thailand**  
Factories & sales
- **Hollnad**  
sales & service
- **America**  
sales & service

# FACTORY EQUIPMENT

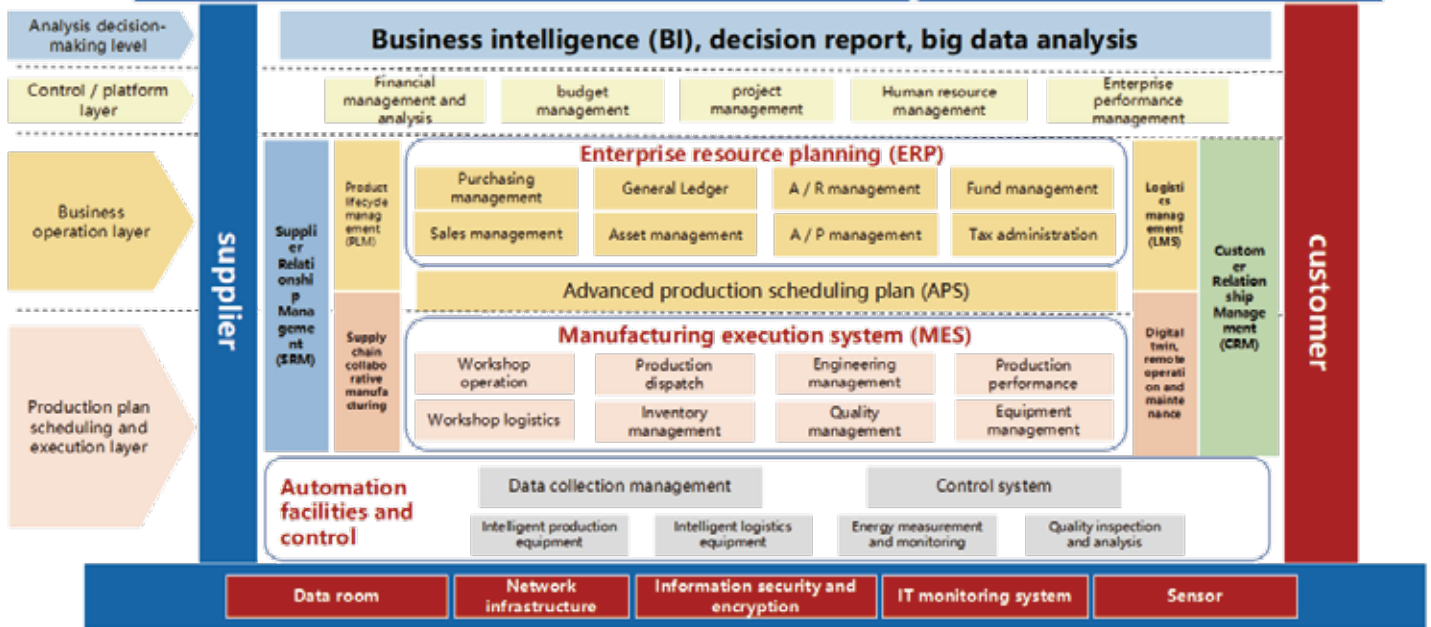


# PATENT AND CERTIFICATE





## Smart factory



# GT500



**Li-ion battery**  
*Portable power station*

## Color



## GT500 Portable Power Station

### Input/Output

Adapter Input	27V/4.5A	Rated Output Power	500W
PV Input	12V~29V DC (120W Max)	AC Output	AC 110V /AC 230V, 50Hz/60Hz (Pure Sine Wave)
Cigar Lighter Output	12V/10A (120W Max)	Wireless charger*2	10W
USB-A*3 Output	5V/2.4A	USB-C Output	5V~20V/3A (60W Max)

### Battery Parameters

Battery Type	LiFePO4
Nominal Battery Energy	518Wh
Nominal Voltage	19.2V
Operating Voltage	16.2V~21.9V
Nominal Capacity	27Ah
Charge Current	Nominal 4.5A@25°C, Maximum 27A@25°C
Discharge Current	Nominal 6A@25°C, Maximum 40A@25°C

### System Parameter

Dimension(D*W*H)	287mm*161mm*230mm
Net Weight	7kg
Temp.Range	Charge 0°C~55°C Discharge -10°C~55°C
Operating Humidity(RH)	0~85% RH (non-condensing)
Calendar Life	2000 Cycles (>80%SOC)
Warranty	1 year
Certification	IEC62619 IEC62368 EN61000-6-1 UN38.3

# GT1500



**Li-ion battery**  
*Portable power station*

## Color



## GT1500 Portable Power Station

### Input/Output

Adapter Input	27V/8.5A	Rated Output Power	1500W
PV Input	12V~29V DC(120W Max)	AC Output	AC 110V/AC 230V, 50Hz/60Hz(Pure Sine Wave)
DC Input	12V/8A (120W Max)	Cigar Lighter Output	12V/8A (120W Max)
USB-A*3 Output	5V/2.4A	USB-C Output	5V~20V/3A (60W Max)

### Battery Parameters

Battery Type	LiFePO4
Nominal Battery Energy	1210Wh
Nominal Voltage	22.4V
Operating Voltage	18.9V~25.55V
Nominal Capacity	54Ah
Charge Current	Nominal 10.8A@25°C, Maximum 54A@25°C
Discharge Current	Nominal 10.8A@25°C, Maximum 80A@25°C

### System Parameter

Dimension(D*W*H)	210mm*400mm*293mm
Net Weight	16kg
Temp.Range	Charge 0°C~55°C Discharge -10°C~55°C
Operating Humidity(RH)	0~95% RH (non-condensing)
Calendar Life	2000 Cycles (>80%SOC)
Warranty	1 year
Certification	IEC62619 IEC62368 EN61000-6-1 UN38.3

# PES12



**Li-ion battery**  
*Portable power station*

## Color



## PES12 Portable Power Station

### Input/Output

Adapter Input	14.6V/4A	Rated Output Power	500W
PV Input	12.6V~18V DC(150W Max)	AC Output*2	AC 110V/AC 230V, 50Hz/60Hz(Pure Sine Wave)
DC Output*3	12V/8A (120W Max)	USB-C Output	5V/3A
USB-A*4 Output	5V/2.1A		

### Battery Parameters

Battery Type	LiFePO4
Nominal Battery Energy	460Wh
Nominal Voltage	12.8V
Operating Voltage	10.8V~14.6V
Nominal Capacity	36Ah
Charge Current	Nominal 4A@25°C, Maximum 8.5A@25°C
Discharge Current	Nominal 7.2A@25°C, Maximum 54.7A@25°C

### System Parameter

Dimension (D*W*H)	290mm*159mm*158mm
Net Weight	6.5kg
Temp.Range	Charge 0°C~60°C Discharge -10°C~60°C
Operating Humidity(RH)	0~95% RH (non-condensing)
Calendar Life	3000 Cycles (>80%SOC)
Warranty	1 year
Certification	IEC62619 IEC62368 EN61000-6-1 UN38.3



# PES22



**Li-ion battery**  
*Portable power station*

## Color



## PES22 Portable Power Station

### Input/Output

Adapter Input	25.5V/8A DC(200W Max)	Rated Output Power	2000W
PV Input	18V~30V DC(200W Max)	AC Output*2	AC 110V/AC 230V, 50Hz/60Hz (Pure Sine Wave)
Cigar Lighter Output	12V/8A	USB-A QC3.0 Output	5V/3A,9V/2A,12V/1.5A
USB-A Output	5V/2.4A	USB-C Output	5V~20V/3A (60W Max)

### Battery Parameters

Battery Type	LiFePO4
Nominal Battery Energy	1456Wh
Nominal Voltage	22.4V
Operating Voltage	18.9V~25.55V
Nominal Capacity	65Ah
Charge Current	Nominal 4A@25°C, Maximum 8A@25°C
Discharge Current	Nominal 13A@25°C, Maximum 89A@25°C

### System Parameter

Dimension (D*W*H)	320mm*230mm*330mm
Net Weight	20kg
Temp.Range	Charge 0°C~60°C Discharge -10°C~60°C
Operating Humidity(RH)	10%~90% RH (non-condensing)
Calendar Life	3000 Cycles (>80%SOC)
Warranty	1 year
Certification	IEC62619 IEC62368 EN61000-6-1 UN38.3

# PES25



**Li-ion battery**  
*Portable power station*

## Color



## PES25 Portable Power Station

### Input/Output

Adapter Input	28V/22A	Rated Output Power	3000W
PV Input	12V~30V DC(300W Max)	AC Output*2	AC 110V/AC 230V, 50Hz/60Hz (Pure Sine Wave)
Cigar Lighter Output	12V/10A	DC Output*2	12V/10A
USB-C Output	5V/3A,9V/2A,12V/1.5A	USB-C PD100W Output	5V~20V/5A
USB-A QC3.0 Output	5V/3A,9V/2A,12V/1.5A	USB-A*3 Output	5V/2.4A

### Battery Parameters

Battery Type	LiFePO4
Nominal Battery Energy	3200Wh
Nominal Voltage	25.6V
Operating Voltage	21.6V~29.2V
Nominal Capacity	125Ah
Charge Current	Nominal 22A@25°C, Maximum 62.5A@25°C
Discharge Current	Nominal 25A@25°C, Maximum 125A@25°C

### System Parameter

Dimension(D*W*H)	466mm*300mm*369mm
Net Weight	37kg
Temp.Range	Charge 0°C~60°C Discharge -10°C~60°C
Operating Humidity(RH)	10%~90% RH (non-condensing)
Calendar Life	3000 Cycles (>80%SOC)
Warranty	1 year
Certification	IEC62619 IEC62368 EN61000-6-1 UN38.3

# HVUS48100

# HVUL48100



**Li-ion battery**  
Energy Storage Battery Module



**HVUS48100**



**HVUL48100**

### 3U Rack-mount Battery Module (High Voltage)

Battery Type	LiFePO4
Nominal Battery Energy	5.12kWh
Nominal Voltage	51.2V
Operating Voltage	43.2V~58.4V
Nominal Capacity	100Ah
Charge Current	Nominal 20A@25°C, Maximum 100A@25°C
Discharge Current	Nominal 20A@25°C, Maximum 100A@25°C
Communication	CAN/RS-485/RS-232
Dimension [D*W*H]	(LVUS48100) 460mm*440mm*133mm, (LVUL48100) 580mm*440mm*133mm
Net Weight	(LVUS48100) 50kg, (LVUL48100)55kg
Temp.Range	Charge 0°C~60°C Discharge -25°C~60°C
Operating Humidity (RH)	0~97% (non-condensing)
Calender Life	6000 Cycles (>80%SOC)
Warranty	5 years/10 years
Certification	IEC62619 IEC62368 EN61000-6-1 UN38.3

# LVUS48100

# LVUL48100



**Li-ion battery**  
*Energy Storage Battery Module*



**LVUS48100**



**LVUL48100**

### 3U Rack-Mount Battery Module (Low Voltage)

Battery Type	LiFePO4
Nominal Battery Energy	5.12kWh
Nominal Voltage	51.2V
Operating Voltage	43.2V~58.4V
Nominal Capacity	100Ah
Charge Current	Nominal 20A@25°C, Maximum 100A@25°C
Discharge Current	Nominal 20A@25°C, Maximum 100A@25°C
Communication	CAN/RS-485/RS-232
Dimension [D*W*H]	(LVUS48100) 460mm*440mm*133mm, (LVUL48100) 580mm*440mm*133mm
Net Weight	(LVUS48100) 50kg, (LVUL48100)55kg
Temp.Range	Charge 0°C~60°C Discharge -25°C~60°C
Operating Humidity (RH)	0~97% (non-condensing)
Calender Life	6000 Cycles (>80%SOC)
Warranty	5 years/10 years
Certification	IEC62619 IEC62368 EN61000-6-1 UN38.3



Phase inverter



FHVS13



FHVL13



### Battery Cabinet (Cabinet + HV Battery Modules)

Battery Type	LiFePO4					
Nominal Battery Energy	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh
Battery Module	3 Modules	4 Modules	5 Modules	6 Modules	7 Modules	8 Modules
Nominal Voltage	153.6V	204.8V	256V	307.2V	358.4V	409.6V
Operating Voltage	129.6V~175.2V	172.8V~233.6V	216V~292V	259.2V~350.4V	302.4V~408.8V	345.6V~467.2V
Nominal Capacity	100Ah					
Charge Current	Nominal 20A@25°C, Maximum 100A@25°C					
Discharge Current	Nominal 20A@25°C, Maximum 100A@25°C					
Communication	CAN/RS-485/RS-232					
Dimension [D*W*H]	650*600*856	650*600*1006	650*600*1156	650*600*1306	650*600*1456	650*600*1606
Net Weight	170kg	220kg	270kg	320kg	370kg	420kg
Temp.Range	Charge 0°C~60°C Discharge -25°C~60°C					
Operating Humidity(RH)	0~97% (non-condensing)					
Calender Life	6000 Cycles (>80%SOC)					
Warranty	5 years /10 years					
Certification	IEC62619 IEC62368 EN61000-6-1 UN38.3					



### Phase inverter



**FLVS13**



**FLVL13**



### Battery Cabinet (Cabinet + LV Battery Modules)

Battery Type	LiFePO4					
Nominal Battery Energy	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh
Battery Module	3	4	5	6	7	8
Nominal Voltage	51.2V					
Operating Voltage	43.2V~58.4V					
Nominal Capacity	300Ah	400Ah	500Ah	600Ah	700Ah	800Ah
Charge Current	Nominal 20A@25°C, Maximum 100A@25°C					
Discharge Current	Nominal 20A@25°C, Maximum 100A@25°C					
Communication	CAN/RS-485/RS-232					
Dimension [D*W*H]	650*600*856	650*600*1006	650*600*1156	650*600*1306	650*600*1456	650*600*1606
Net Weight	170kg	220kg	270kg	320kg	370kg	420kg
Temp.Range	Charge 0°C~60°C Discharge -25°C~60°C					
Operating Humidity(RH)	0~97% (non-condensing)					
Calendar Life	6000 Cycles (>80%SOC)					
Warranty	5 years /10 years					
Certification	IEC62619 IEC62368 EN61000-6-1 UN38.3					



**Phase inverter**



## High Voltage Stackable Battery

Battery Type	LiFePO4					
Nominal Battery Energy	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh
Battery Module	3	4	5	6	7	8
Nominal Voltage	153.6V	204.8V	256V	307.2V	358.4V	409.6V
Operating Voltage	129.6V~175.2V	172.8V~233.6V	216V~292V	259.2V~350.4V	302.4V~408.8V	345.6V~467.2V
Nominal Capacity	100Ah					
Charge Current	Nominal 20A@25°C, Maximum 100A@25°C					
Discharge Current	Nominal 20A@25°C, Maximum 100A@25°C					
Communication	CAN/RS-485/RS-232					
Dimension [D*W*H]	550*480*785	550*480*975	550*480*1165	550*480*1355	550*480*1545	550*480*1735
Net Weight	175kg	230kg	285kg	340kg	395kg	450kg
Temp.Range	Charge 0°C~60°C Discharge -25°C~60°C					
Operating Humidity(RH)	0~97% (non-condensing)					
Protection Level	6000 Cycles (>80%SOC)					
Calender Life	IPX5					
Warranty	5 years /10 years					
Certification	IEC62619 IEC62368 EN61000-6-1 UN38.3					



**Phase inverter**



## Low Voltage Stackable Battery

Battery Type	LiFePO4					
Nominal Battery Energy	15.36kWh	20.48kWh	25.6kWh	30.72kWh	35.84kWh	40.96kWh
Battery Module	3	4	5	6	7	8
Nominal Voltage	51.2V					
Operating Voltage	43.2V~58.4V					
Nominal Capacity	300Ah	400Ah	500Ah	600Ah	700Ah	800Ah
Charge Current	Nominal 20A@25°C, Maximum 100A@25°C					
Discharge Current	Nominal 20A@25°C, Maximum 100A@25°C					
Communication	CAN/RS-485/RS-232					
Dimension [D*W*H]	550*480*785	550*480*975	550*480*1165	550*480*1355	550*480*1545	550*480*1735
Net Weight	175kg	230kg	285kg	340kg	395kg	450kg
Temp.Range	Charge 0°C~60°C Discharge -25°C~60°C					
Operating Humidity(RH)	0~97% (non-condensing)					
Protection Level	6000 Cycles (>80%SOC)					
Calender Life	IPX5					
Warranty	5 years /10 years					
Certification	IEC62619 IEC62368 EN61000-6-1 UN38.3					





## All-In-One ESS (Low Voltage)

### Input/Output

AC Input	AC 230V/21.7A 50Hz/60Hz	Rated Output Power	5kVA
PV Input	100V~550V 15A	AC Output	AC 230V/21.7A 50Hz/60Hz (Pure Sine Wave)
Power Factor	1 (0.8 lagging- 0.8 leading)	THDi	<3%

### Battery Parameters

Battery Type	LiFePO4
Nominal Battery Energy	5.12kWh/10kWh
Nominal Voltage	51.2V
Operating Voltage	43.2V~58.4V
Nominal Capacity	100Ah/200Ah
Charge Current	Nominal 20A@25°C, Maximum 100A@25°C
Discharge Current	Nominal 20A@25°C, Maximum 100A@25°C

### System Parameter

Dimension [D*W*H]	350mm*580mm*1530mm
Net Weight	190kg
Temp.Range	Charge 0°C~60°C Discharge -25°C~60°C
Operating Humidity(RH)	0~85% RH (non-condensing)
Calender Life	6000 Cycles (>80%SOC)
Warranty	5 years /10 years
Certification	IEC62619 IEC62368 EN61000-6-1 UN38.3



## Thin Low Voltage Battery

Battery Type	LiFePO4
Nominal Battery Energy	10.24kWh
Nominal Voltage	51.2V
Operating Voltage	43.2V~58.4V
Nominal Capacity	200Ah
Charge Current	Nominal 20A@25°C, Maximum 100A@25°C
Discharge Current	Nominal 20A@25°C, Maximum 100A@25°C
Communication	CAN/RS-485/RS-232
Dimension [D*W*H]	300mm*600*1200mm
Net Weight	110kg
Temp.Range	Charge 0°C~60°C Discharge -25°C~60°C
Operating Humidity(RH)	0~97% (non-condensing)
Calendar Life	6000 Cycles (>80%SOC)
Warranty	5 years /10 years
Certification	IEC62619 IEC62368 EN61000-6-1 UN38.3



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### **Turnlife New Energy Co.,Ltd**

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