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# Company Introduction

Founded in 2017, Curenta Battery is a High-tech Enterprise specializing in the R&D and production of LiFePO<sub>4</sub> battery for EV, ESS, lead acid battery replacement and many other different applications.

Relying on expert knowledge in LiFePO<sub>4</sub> battery industry and a professional technical team, Curenta focuses on providing customers with high quality products and services to meet customers' customized requirements, thus providing customers with comprehensive battery solutions and lifetime technical support.

Equipped with state-of-art facilities and equipment, certified with Quality System ISO9001, Environmental Management System ISO14001 and Occupation Health and Management System ISO45001, complied with up-to-date certifications: UL, RoHS, CE, BIS, MSDS, UN38.3, Curenta's products perfectly meet international standards with most excellent performance and safety compliance, and fully qualified for high and OEM/ODM markets.



## R&D Team

Curenta battery invests 10% of annual revenue on R&D activities to support innovation and improvement. Now we have 2 R&D centers with 1/3 engineers of total 200 employees for developing leading technologies and applying them to the product design, so as to providing high quality and excellent performance LiFePO<sub>4</sub> battery solutions. Engineers in R&D team are mainly from Huawei, BYD, Emerson and other leading enterprises, with 10+ years working experience in the lithium battery industry, who possess independent R&D capabilities and high intellectual property rights of hardware and software, with more than 30 inventions and application patents.



# CURENTA PRODUCT SERIES

## LiFePO4 Battery OEM/ODM

### Energy Storage System

### Motive Power System

#### Residential Battery

Wall mounted battery



High voltage stackable battery



Low voltage stackable battery



All-in-one battery system



Rack mounted battery



Balcony Energy Storage System



#### Commercial & Industrial ESS

114KWH battery system



230KWH battery system



Golf cart battery



Marine battery



RV battery



Lead acid replacement battery



MSDS

UN38.3



RoHS



UK  
CA





# PRODUCT DISPLAY

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# CURENTA GOLF CART BATTERY



## Features

1. Built-in smart BMS for battery protection.
2. Safe lifepo4 chemistry with deep cycle.
3. Easy installation with less space occupied.
4. Excellent high temperature performance.
5. Real-time battery monitoring on Phone.
6. Compatible with market main brand vehicle controllers etc..

## Applications



Item	General Parameter			
Battery Model	CUR384105G	CUR512105G	CUR512160G	CUR768105G
Energy	4032Wh	5376Wh	8192Wh	8064Wh
Rated Capacity	105Ah	105Ah	160Ah	105Ah
Nominal Voltage	38.4V	51.2V	51.2V	76.8V
Cut-Off Voltage	30V	40V	40V	60V
Charging Voltage	43.8V	58.4V	58.4V	87.6V
Standard Charge	CC@0.2C to 43.8V/58.4V/58.4V/87.6V, then CV till current to 0.05C			
Max. Continuous Charge Current	100A	100A	160A	100A
Max. Continuous Discharge Current	200A			
Pulse discharge current	400A			
Communication	CAN / RS485			
Operation Temperature	Charge: 0~55°C			
	Discharge: -20~65°C			
Storage Temperature	0~45°C			
Bluetooth Function	Yes			
LCD Display	Optional			
Lithium Charger	Optional			
IP Grade	IP67			
Certificates	UN38.3 / MSDS / CE			
Dimension(L*W*H)	425*318*252mm	500*318*230mm	573*369*270mm	740*318*246mm
Net Weight	37.5kg	46kg	68kg	68kg

# CURENTA 12V/24V36V LIFEP04 BOAT BATTERIES



## Features

1. Standard Group31/Group8D Dimension
2. Support Parallel or Series Connection
3. Bluetooth Function/LCD Display for Optional
4. Widely Available for Trolling Motor/Boat

## Applications



Item	General Parameter							
Battery Model	CUR120100S	CUR120100	CUR24078	CUR36067	CUR12400	CUR24105	CUR24200	CUR36105
Energy	1280.0Wh	1280.0Wh	1996.8Wh	2572.8Wh	5120Wh	2688Wh	5120.0Wh	4032.0Wh
Rated Capacity	100Ah	100Ah	78Ah	67Ah	400Ah	105Ah	200Ah	105Ah
Nominal Voltage	12.8V	12.8V	25.6V	38.4V	12.8V	25.6V	25.6V	38.4V
Cut-Off Voltage	10V	10V	20V	30V	10V	20V	20V	30V
Charging Voltage	14.6V	14.6V	29.2V	43.8V	14.6V	29.2V	29.2V	43.8V
Material	LiFePO4							
Max. Continuous Charge Current	100A							
Max. Continuous Discharge Current	100A							
Pulse discharge current	1000A	250A	150A	250A	250A	250A	250A	350A
Operation Temperature	Charge: 0~55°C Discharge: -20~65°C							
Storage Temperature	0~45°C							
Bluetooth Function	Optional							
LCD Display	Optional							
Outer Case	ABS Plastic Case							
Self-discharge Rate	<3%/month							
Certificates	UN38.3 / MSDS / CE							
Dimension(L*W*H)	329*172*214mm/Group31				525*270*220mm/Group 8D			
Net Weight	14kg	14kg	17.4kg	17.5kg	42kg	28kg	38kg	31kg

# CURENTA RV BATTERY



## Features

1. Perform 6000+cycles.
2. Installed 50000+Caravan, Yacht, etc.
3. Excellent high temperature and safety performance.
4. 12V/24V/36V/48V design is available.
5. Dimension can be customized.
6. Voltage display and Bluetooth is optional.
7. Equipped with coulombmeter.
8. Three years warranty.

## Applications



Item	General Parameter		
	CUR12300M	CUR12450M	CUR12600M
Battery Model	CUR12300M	CUR12450M	CUR12600M
Energy	3840Wh	5760Wh	7680Wh
Rated Capacity	300Ah	450Ah	600Ah
Nominal Voltage	12.8V		
Cut-Off Voltage	10V		
Charging Voltage	14.6V		
Standard Charge	CC@0.2C to 14.6V,then CV till current to 0.05C		
Max. Continuous Charge Current	100A		
Max. Continuous Discharge Current	200A		
Pulse Discharge Current	400A(5s)		
Bluetooth Function	Optional		
Operation Temperature	Charge: 0~55°C		
	Discharge: -20~65°C		
Storage Temperature	0~45°C		
Cycle Life	≥6000 Cycles		
Connection	Series / Parallel		
IP Grade	IP54		
Certificates	UN38.3 / MSDS / CE		
Dimension(L*W*H)	359x190x265mm	400x230x265mm	420x305x265mm
Net Weight	28.5kg	38.5kg	54kg

# CURENTA LIFEPO4 MARINE BATTERIES



## Features

1. Built-in smart BMS protecting the battery effectively.
2. Grade A batteries with high stability and safety.
3. LiFePO4 Chemistry with 6000 times cycle.
4. Support multiple battery packs in parallel.
5. Excellent high temperature performance.
6. Bluetooth function with real time battery monitoring on cellphone.
7. Matched with LCD touch screen.

## Applications



Item	General Parameter
Battery Model	CUR512100M
Energy	5120Wh
Rated Capacity	100Ah
Nominal Voltage	51.2V
Cut-Off Voltage	40.0V
Charging Voltage	58.4V
Standard Charge	CC@0.2C to 58.4V, then CV till current to 0.05C
Max. Continuous Charge Current	100A
Max. Continuous Discharge Current	100A
Pulse Discharge Current	300A(5s)
Bluetooth Function	Yes
Operation Temperature	Charge: 0~55°C Discharge: -20~65°C
Storage Temperature	0~45°C
Cycle Life	≥4000 Cycles
IP Grade	IP67
Certificates	UN38.3 / MSDS / CE
Dimension(L*W*H)	550*329*250mm
Net Weight	50kg



# CURENTA RACK MOUNTED BATTERY



## Features

1. Standard 19 inch rack mounted battery.
2. Support parallel connection.
3. RS485/RS232/CAN communication port.
4. Smart BMS with over charge/discharge /current protection.
5. Widely compatible with main brand inverters.
6. LCD screen & breaker & terminal type are optional.
7. Five years warranty.

## Applications



Item	General Parameter			
Battery Model	CUR512050R	CUR512100R	CUR512130R	CUR512200R
Energy	2560Wh	5120Wh	6656Wh	10240Wh
Rated Capacity	50Ah	100Ah	130Ah	200Ah
Nominal Voltage	51.2V			
Cut-Off Voltage	40V			
Charging Voltage	58.4V			
Standard Charge	CC@0.2C to 54.5V, then CV till current to 0.05C			
Max. Continuous Charge Current	50A	100A	100A	120A
Max. Continuous Discharge Current	50A	100A	100A	120A
Pulse Discharge Current	60A	120A	120A	130A
Communication	CAN / RS232 / RS485			
Operation Temperature	Charge: 0~55°C			
	Discharge: -20~65°C			
Storage Temperature	0~45°C			
Cycle Life	≥6000 Cycles			
Parallel Connection	Yes			
Certificates	UN38.3 / MSDS / CE / UKCA			
Dimension(L*W*H)	482*400*133mm	482*495*177mm	482*560*177 mm	482*560*267mm
Net Weight	25kg	46kg	58kg	85kg

# CURENTA WALL MOUNTED BATTERY



## Features

1. Waterproof & dustproof ingress protection rate IP67.
2. Continuous charging & discharging current 100A(200A is optional).
3. Support parallel connection.
4. Compact size & light weight.
5. Wall-mounted & easy installation.
6. Widely compatible with main brand inverters.
7. Perform 6000+cycles.
8. Five years warranty.

## Applications



Item	General Parameter		
Battery Model	CUR512100W	CUR512200W	CUR512400W
Energy	5120Wh	10240Wh	20480Wh
Rated Capacity	100Ah	200Ah	400Ah
Nominal Voltage	51.2V		
Cut-Off Voltage	40V		
Charging Voltage	58.4V		
Standard Charge	CC@0.2C to 54.5V,then CV till current to 0.05C		
Max. Continuous Charge Current	100A	200A	200A
Max. Continuous Discharge Current	100A	200A	200A
Pulse Discharge Current	150A	250A	250A
Communication	CAN / RS232 / RS485		
Operation Temperature	Charge: 0~55°C		
	Discharge: -20~65°C		
Storage Temperature	0~45°C		
Cycle Life	≥6000 Cycles		
Parallel Connection	Yes		
IP Grade	IP67		
Certificates	UN38.3 / MSDS / CE / UKCA		
Dimension(L*W*H)	750*450*163mm	880*520*163mm	1100*760*190mm
Net Weight	55kg	94kg	187kg



# CURENTA 5KWH STACKABLE BATTERY



## Features

1. Performs 6000+ cycles.
2. Flexible connection and 4 different installation ways by option: horizontally stackable, vertically stackable, rack mounted or wall mounted.
3. Support max. 30pcs in parallel to increase capacity up to 150kWh.
4. Widely compatible with main brand inverters, BMS with multiple communication protocols.
5. Widely applicable to residential, commercial and industrial energy storage systems.
6. Five years warranty.

## Multiple Installation



Wall Mounted



Horizontally Stackable



Vertically Stackable



Rack Mounted

Item	General Parameter			
Battery Model	CUR5000H			
Battery Type	LiFePO4			
Nominal Capacity	5.12KWh			
Nominal Voltage	51.2V			
Operating Voltage	40-58.4V			
Rated DC Power	5.12KW			
Max. Continuous Charge /Discharge Current	100A			
Pulse Discharge Current	150A			
Communication	CAN/RS485			
Operation Temperature	Charge: 0~55°C			
	Discharge: -20~65°C			
Cycle Life	≥6000 Cycles			
Series Connection	No			
Parallel Connection	Yes			
IP Grade	IP54			
Certificates	UN38.3 / MSDS / CE / UKCA			
Dimension(L*W*H)	595*177*400mm			
Net Weight	≈45kg			
Installation	Wall Mounted	Horizontally Stackable	Vertically Stackable	Rack Mounted

## COMPATIBLE INVERTER BRAND LIST



## CURENTA HIGH VOLTAGE BATTERY



### Features

1. Adopt green, safe and reliable LiFePO4 battery cells.
2. Flexible investment, meet different energy requirements.
3. Highest energy efficiency.
4. Widely compatible with main brand inverters.
5. Easy Installation, master control unit is 13.5kg, battery module is 39kg.
6. Five years warranty.

Item	General Parameter			
Battery Model	CUR15K100H	CUR20K100H	CUR30K100H	CUR40K100H
Battery Type	LiFePO4			
Battery Module	5120Wh, 51.2V 100AH			
Number of Battery Modules	3	4	6	8
Nominal Capacity	15.36KWh	20.48KWh	30.72KWh	40.96KWh
Nominal Voltage	153.6V	204.8V	307.2V	409.6V
Operating Voltage	120.0-175.2V	160.0-233.6V	240.0-350.4V	320.0-467.2V
Max. Continuous Charge /Discharge Current	100A			
Pulse Discharge Current	150A(<10s)			
Self-discharge Rate	<3%/month			
Communication	CAN			
LCD Display	Yes			
Operation Temperature	Charge: 0~55°C	Discharge: -20~60°C	Storage: 0~45°C	
IP Grade	IP54			
Cycle Life	≥6000 Cycles			
Dimension(L*W*H)	550*470*712mm	550*470*885mm	550*470*1231mm	550*470*1577mm
Net Weight	177Kg	227Kg	327Kg	427Kg



# CURENTA ALL-IN-ONE BATTERY SYSTEM



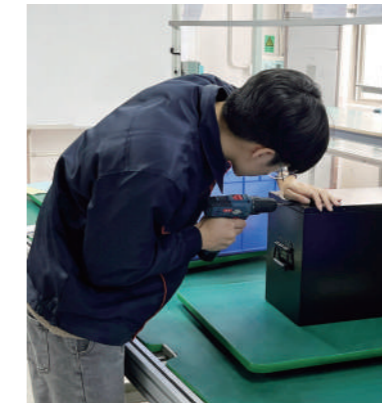
## Features

1. All in one, with integrated batteries and an inverter.
2. Battery capacity can be flexibly expanded.
3. Optional AC output voltage, widely used in power grids worldwide.
4. Easy to install, stacking on top, non-cable connection.
5. Plug and play.

## Applications



Item	General Parameter				
Model	CUR5-3LUS/EU	CUR10-5LUS/EU	CUR15-5LUS/EU	CUR20-5LUS/EU	CUR30-5LUS/EU
<b>Inverter Parameters</b>					
Maximum PV Input Power	3000W	5000W	5000W	5000W	5000W
Maximum PV Voltage	500V				
MPPT Voltage Range	120-500V				
Number of MPPT	1				
Rated Output Power	3000VA	5000VA	5000VA	5000VA	5000VA
Rated Grid Voltage	110V/120V or 220V/230V				
AC Output Frequency	50Hz/60Hz				
<b>Battery Parameters</b>					
Nominal DC Voltage	25.6V	51.2V	51.2V	51.2V	51.2V
Battery Capacity	200Ah*1	100Ah*2	100Ah*3	100Ah*4	100Ah*6
Energy	5120Wh	10.24KWh	15.36KWh	20.48KWh	30.72KWh
Maximum Discharging Current	100A	100A	100A	100A	100A
<b>System</b>					
Dimension(L*W*H)	600*470*430mm	600*470*580mm	600*470*730mm	600*470*880mm	600*470*1180mm
Net Weight	78kg	126kg	174kg	222kg	318kg
IP Grade	IP 54				
Cycle Life	>6000 Cycles (80% DOD)				
Working Temperature	-15°C~55°C				
Certification	CE, UKCA, UN38.3, MSDS				
Communication	RS232, Wifi/GPRS(Optional)				
Cooling Method	Air cooling				
Output Ports	USB: 2* 5V 3A(Max.)		Type C: 1* 5V 3A(Max.)		AC: 4 ports



## Professional Services

### Pre-sales:

1. Determining the technical scheme and signing the technical agreement.
2. Providing free technical consultation.
3. Designing optimum solutions according to customer requirements.

### In-sales:

1. Project manager on site tracking.
2. Supporting factory audit and certificate application.

### After-sales:

1. Supporting remote product upgrading.
2. Providing lifetime after-sales technical consultation and training service.