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## PRODUCT CATALOG

### Energy Storage & Power Battery Factory

DELONG ENERGY 2023

# About DELONG ENERGY

Shenzhen Delong Energy Technology Co., Ltd. is one of the leading lithium ion battery manufacturers in China. Our management team has more than 10 years experience in lithium ion battery industry. We have our own factory, testing room, and sales center. Our factory is located in Dongguan City, Guangdong Province which is occupied over 6000 square meters. We have a strong R&D department and more than 200 well trained workers who can ensure the production of high quality and more stable products.

Dongguan Delong is a high-tech factory certified by CE, ROHS, IEC62133, and ISO9001:2015. We specialize in developing and manufacturing customized new energy products, including LifePO4 battery packs, lithium polymer battery packs, and 18650 lithium ion battery packs. Our products are widely used in outdoor energy storage systems, household solar energy storage systems, RV, golf carts, E-bike, E-tricycles, low-speed vehicles, marine and emergency equipments.

Now, Delong Energy has a good reputation for quality and after-sales service in the battery industry.

10 yrs<sup>+</sup>

Manufacturer

6000<sup>+</sup>

Square Meters

120<sup>+</sup>

Countries

550,000<sup>+</sup>

Customers



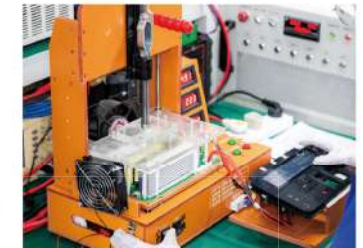
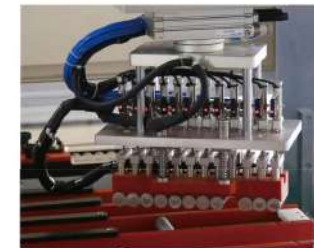
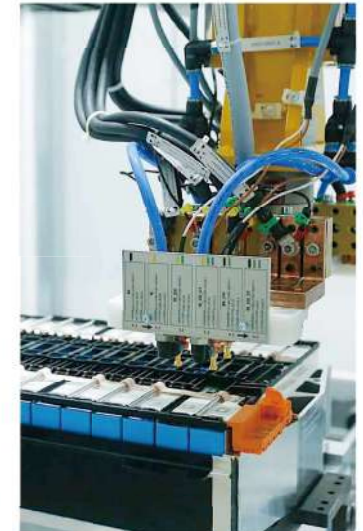
# DEVELOPMENT HISTORY

Delong Energy has been committed to producing lithium Iron phosphate(LiFePO<sub>4</sub>) battery products that satisfy and reassure customers for over a decade.



# DEVELOPMENT HISTORY

## PRODUCTION & TESTING EQUIPMENT





MOVABLE HOME ENERGY STORAGE BATTERY



Product Features

- Stackable & Movable
- Built-in BMS
- Energy dense
- Long cycle life
- Support customization
- Support for Parallel Connection
- Supports Inverter Communications

Applicable Scope

- Household Energy Storage
- UPS System
- Solar Storage
- Central Office
- Base Transceiver Station
- Electric Power System
- Telecommunication Systems
- Communication Equipments
- Switching Applications and More

5Kwh ~ 25Kwh  
Stackable & Movable Mounted



Models	DL-LFP-HS51100			
Product Specification	51.2V 100Ah x 1P	51.2V 100Ah x 2P	51.2V 100Ah x 3P	51.2V 100Ah x 5P
Nominal Voltage	51.2V	51.2V	51.2V	51.2V
Nominal Capacity	100Ah	200Ah	300Ah	500Ah
Battery Energy	5.12Kwh	10.24Kwh	15.36Kwh	25.6Kwh
Max Charge Current†	70A	140A*	210A*	350A*
Max Discharge Current	100A	200A*	300A*	500A*
Recommended load	2~5Kw	3~8Kw	5~12Kw	8~15Kw
Charging Cut-off Voltage	57.6V± 0.2V			
Discharging Cut-off Voltage	44.8V± 0.2V			
Cell Type	LiFePO4 Battery			
Terminal	M8			
Case Material	Metal Box			
Communication Mode	RS485/CAN			
Charge Temperature Range	0~45℃			
Discharge Temperature Range	-5~55℃			
Cycle Life	≥6500 Cycles			
Designed Life	12 Years			
Colour	white			
Weight	60±0.5Kg	108.5±0.5Kg	157.5±0.5Kg	255.5±0.5Kg
Dimensions(LxWxH)	640*450*180/310mm	640*450*345/475mm	640*450*510/640mm	640*450*840/970mm
Assembly Method	Stackable & Movable			

\* This is the theoretical current value after batteries are connected in series. There will be a certain error due to external wire length and other factors.

MOVABLE HOME ENERGY STORAGE BATTERY



Product Features

- Stackable & Movable
- Built-in BMS
- Energy dense
- Long cycle life
- Support customization
- Support for Parallel Connection
- Supports Inverter Communications

Applicable Scope

- Household Energy Storage
- UPS System
- Solar Storage
- Central Office
- Base Transceiver Station
- Electric Power System
- Telecommunication Systems
- Communication Equipments
- Switching Applications and More

10Kwh ~ 50Kwh

Stackable & Movable Mounted



Models	DL-LFP-HS51200			
Product Specification	51.2V 200Ah x 1P	51.2V 200Ah x 2P	51.2V 200Ah x 3P	51.2V 200Ah x 5P
Nominal Voltage	51.2V	51.2V	51.2V	51.2V
Nominal Capacity	200Ah	400Ah	600Ah	1000Ah
Battery Energy	10.12Kwh	20.56Kwh	30.72Kwh	51.2Kwh
Max Charge Current†	100A	200A*	300A*	500A*
Max Discharge Current	200A	400A*	600A*	1000A*
Recommended load	5~8Kw	5~12Kw	8~15Kw	10~20Kw
Charging Cut-off Voltage	57.6V± 0.2V			
Discharging Cut-off Voltage	44.8V± 0.2V			
Cell Type	LiFePO4 Battery			
Terminal	M8			
Case Material	Metal Box			
Communication Mode	RS485/CAN			
Charge Temperature Range	0~45℃			
Discharge Temperature Range	-5~55℃			
Cycle Life	≥5000 Cycles			
Designed Life	12 Years			
Colour	white +black			
Weight	92±0.5Kg	168.5±0.5Kg	245±0.5Kg	398±0.5Kg
Dimensions(LxWxH)	690*590*160/290mm	690*590*305/435mm	690*590*450/580mm	690*590*740/870mm
Assembly Method	Stackable & Movable			

\* This is the theoretical current value after batteries are connected in series. There will be a certain error due to external wire length and other factors.

MOVABLE HOME ENERGY STORAGE BATTERY



Product Features

- Stackable & Movable
- Built-in BMS
- Energy dense
- Long cycle life
- Support customization
- Support for Parallel Connection
- Supports Inverter Communications

Applicable Scope

- Household Energy Storage
- UPS System
- Solar Storage
- Central Office
- Base Transceiver Station
- Electric Power System
- Telecommunication Systems
- Communication Equipments
- Switching Applications and More

15Kwh ~ 45Kwh

Stackable & Movable Mounted



Models	DL-LFP-HS51300		
Product Specification	51.2V 300Ah x 1P	51.2V 300Ah x 2P	51.2V 300Ah x 3P
Nominal Voltage	51.2V	51.2V	51.2V
Nominal Capacity	300Ah	600Ah	900Ah
Battery Energy	15.36Kwh	30.72Kwh	46.08Kwh
Max Charge Current	100A	200A*	300A*
Max Discharge Current	200A	400A*	600A*
Recommended load	5~8Kw	5~12Kw	10~20Kw
Charging Cut-off Voltage	57.6V± 0.2V		
Discharging Cut-off Voltage	44.8V± 0.2V		
Cell Type	LiFePO4 Battery		
Terminal	M8		
Case Material	Metal Box		
Communication Mode	RS485/CAN		
Charge Temperature Range	0~45℃		
Discharge Temperature Range	-5~55℃		
Cycle Life	≥6500 Cycles		
Designed Life	12 Years		
Colour	white+black		
Weight	118±0.5Kg	220±0.5Kg	322±0.5Kg
Dimensions(LxWxH)	690*590*258/388mm	690*590*500/630mm	690*590*745/875mm
Assembly Method	Stackable & Movable		

\* This is the theoretical current value after batteries are connected in series. There will be a certain error due to external wire length and other factors.



ALL IN ONE (Home Energy Storage Battery + 10Kw Inverter)



Product Features

- Stackable & Movable
- Superimposed Inverter
- Battery Built-in BMS
- Support for Parallel Connection
- Energy Dense Battery Cell
- Long Cycle Life
- Support Customization

Applicable Scope

- Household Energy Storage
- 200~240V Output
- Solar Storage
- Central Office
- Base Transceiver Station
- Telecommunication Systems
- Communication Equipments
- Switching Applications and More

Household Energy Storage System with Off Grid Inverter (ESS)				
Item	Model	10Kwh+10Kw	20Kwh+10Kw	30Kwh+10Kw
Battery Module	Voltage	51.2V		
	Battery Capacity	DL-LFP-HS51200 x 1 200Ah	DL-LFP-HS51200 x 2 400Ah	DL-LFP-HS51200 x 3 600Ah
	Battery Energy	10.24Kwh	20.48Kwh	30.72Kwh
	Charging Cut-off Voltage	57.6V ± 0.2V		
	Discharge cut-off Voltage	44.8V ± 0.2V		
	Charge Current	80A		
	Max Charge Current	100A		
	Discharge Current	200A		
	Max Discharge Current	205A(100mS)		
	Communication Method	RS485/CAN		
Inverter	PV Input	Input Power (PV)	5000W * 2	
		Input Voltage Range (PV)	450VDC	
		MPPT Voltage Range	120-430VDC	
		PV Max Charging Current	0~80A (To be set)	
	AC Input	Rating Input Voltage	200V~240VAC	
		Input Voltage Range	(USP)185-280VAC / (APL)90-280 VAC (To be set)	
		Input Frequency Range	40-70 Hz (Auto test)	
		Rating Input Current	22.7A	
	AC Output	Max Input Current	40A	
		Rating Output Power	10000W	
		Rating Output Voltage	220VAC(208/220/230/240 Vac To be set)	
		Output Waveform	Pure Sine Wave	
		Switch Time	Typical 10ms	
		Rating Output Frequency	50/60Hz (To be set)	
		Summit Efficiency	> 93%	
		Communication Method	RS485/CAN/Wifi	
Parameter	Material / Colour		Metal / White+Black	
	Size		690x590x490mm	690x590x640mm      690x590x790mm
	Weight		123Kg ± 2Kg	200Kg ± 2Kg      275Kg ± 2Kg
	Temperture		Charge: 0°C-50°C / Discharge:-5°C-55°C	



## STACKABLE & WALL MOUNTED ENERGY STORAGE BATTERIES



### Product Features

- Stackable & Wall Mounted
- Built-in BMS
- Energy dense
- Long cycle life
- Support customization
- Support for Parallel Connection
- Supports Inverter Communications

### Applicable Scope

- Household Energy Storage
- UPS System
- Solar Storage
- Central Office
- Base Transceiver Station
- Electric Power System
- Telecommunication Systems
- Communication Equipments
- Switching Applications and More

Models	DL-LFP48100		
Product Specification	48V 100Ah x 1P	48V 100Ah x 2P	48V 100Ah x 3P
Nominal Voltage	48V	48V	48V
Nominal Capacity	100Ah	200Ah	300Ah
Battery Energy	4.8Kwh	9.6Kwh	14.4Kwh
Max Charge Current	70A	140A*	210A*
Max Discharge Current	100A	200A*	300A*
Recommended load	2~3Kw	3~6Kw	5~10Kw
Charging Cut-off Voltage	54.6V± 0.2V		
Discharging Cut-off Voltage	42.8V± 0.2V		
Cell Type	LiFePO4 Battery		
Terminal	M8		
Case Material	Metal Box		
Communication Mode	RS485/CAN		
Charge Temperature Range	0~45°C		
Discharge Temperature Range	-5~55°C		
Cycle Life	≥6500 Cycles		
Designed Life	12 Years		
Colour	white +black		
Weight	43±0.5Kg	86±0.5Kg	129±0.5Kg
Dimensions(LxWxH)	483*220*460/490mm	483*220*940mm	483*220*1400mm
Assembly Method	Stackable & Wall Mounted / Stackable		

Models	DL-LFP51100		
Product Specification	51.2V 100Ah x 1P	51.2V 100Ah x 2P	51.2V 100Ah x 3P
Nominal Voltage	51.2V	51.2V	51.2V
Nominal Capacity	100Ah	200Ah	300Ah
Battery Energy	5.12Kwh	10.24Kwh	15.36Kwh
Max Charge Current	70A	140A*	210A*
Max Discharge Current	100A	200A*	300A*
Recommended load	3~5Kw	5~8Kw	5~12Kw
Charging Cut-off Voltage	57.6V± 0.2V		
Discharging Cut-off Voltage	44.8V± 0.2V		
Cell Type	LiFePO4 Battery		
Terminal	M8		
Case Material	Metal Box		
Communication Mode	RS485/CAN		
Charge Temperature Range	0~45°C		
Discharge Temperature Range	-5~55°C		
Cycle Life	≥6500 Cycles		
Designed Life	12 Years		
Colour	white +black		
Weight	47.5±0.5Kg	92.5±0.5Kg	145.5±0.5Kg
Dimensions(LxWxH)	483*220*460/490mm	483*220*940mm	483*220*1400mm
Assembly Method	Stackable & Wall Mounted / Stackable		

\* This is the theoretical current value after batteries are connected in series. There will be a certain error due to external wire length and other factors.

ALL IN ONE (Home Energy Storage Battery + 5Kw Inverter)



Product Features

- Stackable
- Superimposed Inverter
- Battery Built-in BMS
- Support for Parallel Connection
- Energy Dense Battery Cell
- Long Cycle Life
- Support Customization

Applicable Scope

- Household Energy Storage
- 110V/220V Output
- Solar Storage
- Central Office
- Base Transceiver Station
- Telecommunication Systems
- Communication Equipments
- Switching Applications and More

Household Energy Storage System with Off Grid Inverter (ESS)					
Item		Model	5Kwh+5Kw	10Kwh+5Kw	15Kwh+5Kw
Battery Module		Voltage	51.2V		
		Battery Capacity	DL-LFP-HS51100 x 1 100Ah	DL-LFP-HS51100 x 2 200Ah	DL-LFP-HS51100 x 3 300Ah
		Battery Energy	5.12Kwh	10.24Kwh	15.36Kwh
		Charging Cut-off Voltage	57.6V ± 0.2V		
		Discharge cut-off Voltage	44.8V ± 0.2V		
		Charge Current	40A		
		Max Charge Current	70A		
		Discharge Current	100A		
		Max Discharge Current	150A(100mS)		
		Communication Method	RS485/CAN		
Inverter	PV Input	Input Power (PV)	5000W / 5500W (max)		
		Input Voltage Range (PV)	450VDC		
		MPPT Voltage Range	120-430VDC		
		PV Max Charging Current	0~80A (To be set)		
	AC Input	Rating Input Voltage	200V~240VAC		
		Input Voltage Range	(USP) 185-280VAC / (APL)90-280 VAC (To be set)		
		Input Frequency Range	40-70 Hz (Auto test)		
		Rating Input Current	22.7A		
		Max Input Current	40A		
	AC Output	Rating Output Power	5000W		
		Rating Output Voltage	220VAC(208/220/230/240 Vac To be set)		
		Output Waveform	Pure Sine Wave		
		Switch Time	Typical 10ms		
		Rating Output Frequency	50/60Hz (To be set)		
		Summit Efficiency	>93%		
		Communication Method	RS485/CAN/Wifi		
Parameter	Material / Colour	Metal / White+Black			
	Size	483x200x940mm	483x200x1390mm	483x200x1840mm	
	Weight	62Kg ± 2Kg	107Kg ± 2Kg	152Kg ± 2Kg	
	Temperture	Charge: 0°C-50°C / Discharge:-5°C-55°C			



# WALL MOUNTED HOME ENERGY STORAGE BATTERIES



### Product Features

- Wall Mounted
- Built-in BMS
- Energy dense
- Long cycle life
- Support customization
- Support for Parallel Connection
- Supports Inverter Communications

### Applicable Scope

- Household Energy Storage
- UPS System
- Solar Storage
- Central Office
- RV Energy Storage
- Tent Car Energy Storage
- Telecommunication Systems
- Communication Equipments
- Switching Applications and More

Models	DL-LFP25100	DL-LFP25120
Product Specification	25.6V 100Ah	25.6V 120Ah
Nominal Voltage	25.6V	25.6V
Nominal Capacity	100Ah	120Ah
Battery Energy	2.56Kwh	3.072Kwh
Max Charge Current	70A	70A
Max Discharge Current	100A	100A
Recommended load	< 2.5Kw	< 3Kw
Charging Cut-off Voltage	28.8V± 0.2V	28.2V± 0.2V
Discharging Cut-off Voltage	22.4V± 0.2V	22.4V± 0.2V
Cell Type	LiFePO4 Battery	
Terminal	M8	
Case Material	Metal Box	
Communication Mode	RS485/CAN (Optional with Communication)	
Charge Temperature Range	0~45℃	
Discharge Temperature Range	-5~55℃	
Cycle Life	≥6500 Cycles	
Designed Life	12 Years	
Colour	white + black	
Weight	32±0.5Kg	36±0.5Kg
Dimensions(LxWxH)	483*150*450mm	483*150*450mm
Assembly Method	Wall Mounted	

Models	DL-LFP-4850	DL-LFP-5150
Product Specification	48V 50Ah	51.2V 50Ah
Nominal Voltage	48V	51.2V
Nominal Capacity	50Ah	50Ah
Battery Energy	2.4Kwh	2.56Kwh
Max Charge Current	30A	70A
Max Discharge Current	50A	100A
Recommended load	< 2.5Kw	2~5Kw
Charging Cut-off Voltage	54.6V± 0.2V	57.6V± 0.2V
Discharging Cut-off Voltage	42.8V± 0.2V	44.8V± 0.2V
Cell Type	LiFePO4 Battery	
Terminal	M8	
Case Material	Metal Box	
Communication Mode	RS485/CAN (Optional with Communication)	
Charge Temperature Range	0~45℃	
Discharge Temperature Range	-5~55℃	
Cycle Life	≥6500 Cycles	
Designed Life	12 Years	
Colour	white + black	
Weight	30.5±0.5Kg	32±0.5Kg
Dimensions(LxWxH)	483*150*450mm	483*150*450mm
Assembly Method	Wall Mounted	

# WALL MOUNTED HOME ENERGY STORAGE BATTERIES



### Product Features

- Wall Mounted
- Built-in BMS
- Energy dense
- Long cycle life
- Support customization
- Support for Parallel Connection
- Supports Inverter Communications

### Applicable Scope

- Household Energy Storage
- UPS System
- Solar Storage
- Central Office
- Base Transceiver Station
- Electric Power System
- Telecommunication Systems
- Communication Equipments
- Switching Applications and More

Models	DL-LFP-HW48200	DL-LFP-HW51200
Product Specification	48V 200Ah	51.2V 200Ah
Nominal Voltage	48V	51.2V
Nominal Capacity	200Ah	200Ah
Battery Energy	9.6Kwh	10.24Kwh
Max Charge Current	100A	100A
Max Discharge Current	200A	200A
Recommended load	5~8Kw	5~8Kw
Charging Cut-off Voltage	54V± 0.2V	57.6V± 0.2V
Discharging Cut-off Voltage	42V± 0.2V	44.8V± 0.2V
Cell Type	LiFePO4 Battery	
Terminal	M8	
Case Material	Metal Box	
Communication Mode	RS485/CAN (Optional with Communication)	
Charge Temperature Range	0~45℃	
Discharge Temperature Range	-5~55℃	
Cycle Life	≥6500 Cycles	
Designed Life	12 Years	
Colour	white +black	
Weight	73.5±0.5Kg	77±0.5Kg
Dimensions(LxWxH)	730*475*145/180mm	730*475*145/180mm
Assembly Method	Wall Mounted	

Models	DL-LFP-HW25200
Product Specification	25.6V 200Ah
Nominal Voltage	25.6V
Nominal Capacity	200Ah
Battery Energy	5.12Kwh
Max Charge Current	100A
Max Discharge Current	200A
Recommended load	3~5Kw
Charging Cut-off Voltage	28.8V± 0.2V
Discharging Cut-off Voltage	22.4V± 0.2V
Cell Type	LiFePO4 Battery
Terminal	M8
Case Material	Metal Box
Communication Mode	RS485/CAN
Charge Temperature Range	0~45℃
Discharge Temperature Range	-5~55℃
Cycle Life	≥6500 Cycles
Designed Life	12 Years
Colour	white +black
Weight	36±0.5Kg
Dimensions(LxWxH)	730*330*145/180mm
Assembly Method	Wall Mounted



WALL MOUNTED HOME ENERGY STORAGE BATTERIES



Product Features

- Wall Mounted
- Built-in BMS
- Energy dense
- Long cycle life
- Support customization
- Support for Parallel Connection
- Supports Inverter Communications

Applicable Scope

- Household Energy Storage
- UPS System
- Solar Storage
- Central Office
- Base Transceiver Station
- Electric Power System
- Telecommunication Systems
- Communication Equipments
- Switching Applications and More

Models	DL-LFP48200
Product Specification	48V 200Ah
Nominal Voltage	48V
Nominal Capacity	200Ah
Battery Energy	9.6Kwh
Max Charge Current	100A
Max Discharge Current	200A
Recommended load	5~8Kw
Charging Cut-off Voltage	54V± 0.2V
Discharging Cut-off Voltage	42V± 0.2V
Cell Type	LifePO4 Battery
Terminal	M8
Case Material	Metal Box
Communication Mode	RS485 / CAN
Charge Temperature Range	0~45℃
Discharge Temperature Range	-5~55℃
Cycle Life	≥6500 Cycles
Designed Life	12 Years
Colour	white +black
Weight	73.5±0.5Kg
Dimensions(LxWxH)	508*700*160/195mm
Assembly Method	Wall Mounted

Models	DL-LFP51200
Product Specification	51.2V 200Ah
Nominal Voltage	51.2V
Nominal Capacity	200Ah
Battery Energy	10.24Kwh
Max Charge Current	100A
Max Discharge Current	200A
Recommended load	5~8Kw
Charging Cut-off Voltage	57.6V± 0.2V
Discharging Cut-off Voltage	44.8V± 0.2V
Cell Type	LifePO4 Battery
Terminal	M8
Case Material	Metal Box
Communication Mode	RS485/CAN
Charge Temperature Range	0~45℃
Discharge Temperature Range	-5~55℃
Cycle Life	≥6500 Cycles
Designed Life	12 Years
Colour	white + black
Weight	80±0.5Kg
Dimensions(LxWxH)	508*700*160/195mm
Assembly Method	Wall Mounted

## WALL MOUNTED HOME ENERGY STORAGE BATTERIES



### Product Features

- Wall Mounted
- Built-in BMS
- Energy dense
- Long cycle life
- Support customization
- Support for Parallel Connection
- Supports Inverter Communications

### Applicable Scope

- Household Energy Storage
- UPS System
- Solar Storage
- Central Office
- Base Transceiver Station
- Electric Power System
- Telecommunication Systems
- Communication Equipments
- Switching Applications and More

Models	DL-LFP24100J	DL-LFP4850J	DL-LFP5150J
Product Specification	25.6V 100Ah	48V 50Ah	51.2V 50Ah
Nominal Voltage	25.6V	48V	51.2V
Nominal Capacity	100Ah	50Ah	50Ah
Battery Energy	2.56Kwh	2.4Kwh	2.56Kwh
Max Charge Current	70A	20A	70A
Max Discharge Current	100A	50A	100A
Recommended load	< 2Kw	< 2Kw	2~3Kw
Charging Cut-off Voltage	28.8V± 0.2V	54V± 0.2V	57.6V± 0.2V
Discharging Cut-off Voltage	22.4V± 0.2V	42V± 0.2V	44.8V± 0.2V
Cell Type	LiFePO4 Battery		
Terminal	M8		
Case Material	Metal Box		
Communication Mode	/	/	RS485/CAN
Charge Temperature Range	0~45℃		
Discharge Temperature Range	-5~55℃		
Cycle Life	≥6500 Cycles		
Designed Life	12 Years		
Colour	white + black		
Weight	27.5±0.5Kg		
Dimensions(LxWxH)	400*400*125/155mm		
Assembly Method	Wall Mounted		

Models	DL-LFP24200J	DL-LFP48100J	DL-LFP51100J
Product Specification	25.6V 200Ah	48V 100Ah	51.2V 100Ah
Nominal Voltage	25.6V	48V	51.2V
Nominal Capacity	200Ah	100Ah	100Ah
Battery Energy	5.12Kwh	4.28Kwh	5.12Kwh
Max Charge Current	40A/70A	70A	70A
Max Discharge Current	100A/200A	100A	100A
Recommended load	2~4Kw	2~4Kw	2~5Kw
Charging Cut-off Voltage	28.8V± 0.2V	54V± 0.2V	57.6V± 0.2V
Discharging Cut-off Voltage	22.4V± 0.2V	42V± 0.2V	44.8V± 0.2V
Cell Type	LiFePO4 Battery		
Terminal	M8		
Case Material	Metal Box		
Communication Mode	/	/	RS485/CAN
Charge Temperature Range	0~45℃		
Discharge Temperature Range	-5~55℃		
Cycle Life	≥6500 Cycles		
Designed Life	12 Years		
Colour	white +black		
Weight	52±0.5Kg	50±0.5Kg	52Kg
Dimensions(LxWxH)	480*400*185/210mm		
Assembly Method	Wall Mounted		



BE SERIES RACK MOUNTED ENERGY STORAGE



Product Features

- Rack Mounted
- Built-in BMS
- Energy dense
- Long cycle life
- Climate tolerant
- Maintenance-free
- Support customization
- Support parallel operation

Applicable Scope

- UPS
- Solar storage
- Central office
- Base transceiver station
- Electronic cash registers
- Telecommunication systems
- Communication equipments
- Switching applications and more
- Microprocessor based office machine

5Kwh ~ 25Kwh

Rack Mounted Solar Energy Storage Battery



Models	DL-LFP-BE51100			
Product Specification	51.2V 100Ah x 1P	51.2V 100Ah x 2P	51.2V 100Ah x 3P	51.2V 100Ah x 5P
Nominal Voltage	51.2V	51.2V	51.2V	51.2V
Nominal Capacity	100Ah	200Ah	300Ah	500Ah
Battery Energy	5.12Kwh	10.24Kwh	15.36Kwh	25.6Kwh
Max Charge Current	70A	140A*	210A*	350A*
Max Discharge Current	100A	200A*	300A*	500A*
Recommended load	2~4Kw	3~6Kw	5~8Kw	6~12Kw
Charging Cut-off Voltage	57.6V± 0.2V			
Discharging Cut-off Voltage	44.8V± 0.2V			
Cell Type	LiFePO4 Battery			
Terminal	M8			
Case Material	Metal Box			
Communication Mode	RS485/CAN			
Charge Temperature Range	0~45℃			
Discharge Temperature Range	-5~55℃			
Cycle Life	≥6500 Cycles			
Designed Life	12 Years			
Colour	black			
Weight (Without Rack)	45.5±0.5Kg	91.5±0.5Kg	136.5±0.5Kg	227.5±0.5Kg
Dimensions(LxWxH)/Without Rack	482/438*420*177mm	482/438*420*354mm	482/438*420*531mm	482/438*420*885mm
Dimensions(LxWxH)/With Rack	502*425*202mm	502*425*404mm	502*425*606mm	502*425*1010mm
Assembly Method	Rack / Cabinet			

\* This is the theoretical current value after batteries are connected in series. There will be a certain error due to external wire length and other factors.

BE SERIES RACK MOUNTED ENERGY STORAGE



Product Features

- Rack Mounted
- Built-in BMS
- Energy dense
- Long cycle life
- Climate tolerant
- Maintenance-free
- Support customization
- Support parallel operation

Applicable Scope

- UPS
- Solar storage
- Central office
- Base transceiver station
- Electronic cash registers
- Telecommunication systems
- Communication equipments
- Switching applications and more
- Microprocessor based office machine

10Kwh ~ 40Kwh

Rack Mounted Solar Energy Storage Battery



Models	BE Series Rack Mounted Energy Storage			
Product Specification	51.2V 200Ah x 1P	51.2V 200Ah x 2P	51.2V 200Ah x 3P	51.2V 200Ah x 4P
Nominal Voltage	51.2V	51.2V	51.2V	51.2V
Nominal Capacity	200Ah	400Ah	600Ah	800Ah
Battery Energy	10.24Kwh	20.56Kwh	30.72Kwh	40.96Kwh
Max Charge Current	100A	200A*	300A*	400A*
Max Discharge Current	200A	400A*	600A*	800A*
Recommended load	5~8Kw	5~10Kw	8~12Kw	10~20Kw
Charging Cut-off Voltage	57.6V± 0.2V			
Discharging Cut-off Voltage	44.8V± 0.2V			
Cell Type	LiFePO4 Battery			
Terminal	M8			
Case Material	Metal Box			
Communication Mode	RS485/CAN			
Charge Temperature Range	0~45℃			
Discharge Temperature Range	-5~55℃			
Cycle Life	≥6500 Cycles			
Designed Life	12 Years			
Colour	black			
Weight (Without Rack)	79.5±0.5Kg	159.5±0.5Kg	238.5±0.5Kg	397.5±0.5Kg
Dimensions(LxWxH)/Without Rack	482/438*540*240mm	482/438*540*480mm	482/438*540*720mm	482/438*540*960mm
Dimensions(LxWxH)/With Rack	502*545*265mm	502*545*530mm	502*545*795mm	502*545*1056mm
Assembly Method	Rack / Cabinet			

\* This is the theoretical current value after batteries are connected in series. There will be a certain error due to external wire length and other factors.



# BE SERIES RACK MOUNTED ENERGY STORAGE



### Product Features

- Rack Mounted
- Built-in BMS
- Energy dense
- Long cycle life
- Climate tolerant
- Maintenance-free
- Support customization
- Support parallel operation

### Applicable Scope

- UPS
- Solar storage
- Central office
- Base transceiver station
- Electronic cash registers
- Telecommunication systems
- Communication equipments
- Switching applications and more
- Microprocessor based office machine



## 15Kwh ~ 45Kwh

Rack Mounted Solar Energy Storage Battery



Models	DL-LFP-HS51300		
Product Specification	51.2V 300Ah x 1P	51.2V 300Ah x 2P	51.2V 300Ah x 3P
Nominal Voltage	51.2V	51.2V	51.2V
Nominal Capacity	300Ah	600Ah	900Ah
Battery Energy	15.36Kwh	30.72Kwh	46.08Kwh
Max Charge Current	100A	200A*	300A*
Max Discharge Current	200A	400A*	600A*
Recommended load	5~8Kw	6~12Kw	10~20Kw
Charging Cut-off Voltage	57.6V± 0.2V		
Discharging Cut-off Voltage	44.8V± 0.2V		
Cell Type	LiFePO4 Battery		
Terminal	M8		
Case Material	Metal Box		
Communication Mode	RS485/CAN		
Charge Temperature Range	0~45℃		
Discharge Temperature Range	-5~55℃		
Cycle Life	≥6500 Cycles		
Designed Life	12 Years		
Colour	black		
Weight (Without Rack)	108.5±0.5Kg	216.5±0.5Kg	325.5±0.5Kg
Dimensions(LxWxH)/Without Rack	482/438*682*240mm	482/438*682*480mm	482/438*682*720mm
Dimensions(LxWxH)/With Rack	502*682*265mm	502*682*530mm	502*682*795mm
Assembly Method	Rack / Cabinet		

\* This is the theoretical current value after batteries are connected in series. There will be a certain error due to external wire length and other factors.



MOVABLE 5KW ALL-IN-ONE POWER BANK



Applicable Scope

- Household Emergency
- Outdoor Standby
- RV / Tent Truck
- Camper
- Daily AC/DC Applications
- Household Energy Storage

Product Features

- Improved Design
- Easy to carry
- Built-in BMS
- Energy dense
- Long cycle life
- Easy to operate
- Support customization
- Environmental protection



5Kwh+5Kw Movable Energy Storage System (ESS)					
Item		Model	DL-AO5000	DL-AO5000 - 5kwh	DL-AO5000-10kwh
Battery Module		Voltage	51.2V		
		Battery Capacity	Built-in 5Kwh battery	Built-in 5Kwh battery Superimposed 5Kwh battery X 1	Built-in 5Kwh battery Superimposed 5Kwh battery X 2
		Battery Energy	5.12Kwh	10.24Kwh	15.36Kwh
		Charging Cut-off Voltage	57.6V ± 0.2V		
		Discharge cut-off Voltage	44.8V ± 0.2V		
		Charge Current	40A		
		Max Charge Current	70A		
		Discharge Current	100A		
		Max Discharge Current	150A(100mS)		
		Communication Method	RS485/CAN		
Inverter	PV Input (XT90)	Input Power (PV)	5000W (max)		
		Input Voltage Range (PV)	450VDC		
		MPPT Voltage Range	120-430VDC		
		PV Max Charging Current	0~80A (To be set)		
	AC Input (3 Pin)	Rating Input Voltage	200V~240VAC		
		Input Voltage Range	(USP) 185-280VAC / (APL) 90-280 VAC (To be set)		
		Input Frequency Range	40-70 Hz (Auto test)		
		Rating Input Current	22.7A		
		Max Input Current	40A		
	AC Output (3 Socket)	Rating Output Power	5000W		
		Rating Output Voltage	220VAC(208/220/230/240 Vac To be set)		
		Output Waveform	Pure Sine Wave		
		Switch Time	Typical 10ms		
		Rating Output Frequency	50/60Hz (To be set)		
		Summit Efficiency	>93%		
Display		LCD			
Parameter		Material / Colour	Metal / Grey+Black		
		Size	680x380x360mm	680x380x540mm	680x380x720mm
		Weight	62Kg ± 2Kg	107Kg ± 2Kg	152Kg ± 2Kg
		Temperature	Charge: 0°C-50°C / Discharge:-5°C-55°C		

12V BATTERY+1000W AC OUTPUT INVERTER



Applicable Scope

- Household Emergency
- Outdoor Standby
- RV / Tent Truck
- Camper
- Daily AC/DC Applications
- Household Energy Storage

Product Features

- Improved Design
- Easy to carry
- Built-in BMS
- Energy dense
- Long cycle life
- Easy to operate
- Support customization
- Environmental protection

Outdoor and Emergency Retrofitted Inverters

Item	Model	DL-LFP12 Plus-1000
Battery Module	Voltage	12.8V
	Battery Capacity	100Ah / 120Ah / 150Ah
	Battery Energy	1.28Kwh / 1.536Kwh / 1.92Kwh
	Charge Voltage	14.8V
	Discharge cut-off Voltage	9.2V
	Charge Current	40A
	Max Charge Current	70A
	Discharge Current	100A
	Max Discharge Current	150A (100ms)
	Communication Method	/
Inverter	Power	1000W
	Input Voltage (DC)	14.8VDC (Anderson SB50 Input)
	Output Voltage	200V~240VAC (Dual Port) Customizable specifications
	Frequency	50Hz (Support customization)
	DC Output	640W (Anderson SB50 Output)
	USB Output	5V2.4A (12W max)
	AC Efficiency	88%
Parameter	Material / Colour	<b>Metal</b> (Inverter box) / <b>ABS+PC</b> (Battery) / <b>Black</b>
	Size	329x172x320mm
	Weight	<18Kg
	Temperature	Charge: 0°C-50°C Discharge: -5°C-55°C



LEAD ACID BATTERY REPLACED BY LITHIUM BATTERY



Applicable Scope

- UPS / Kids car
- Ice fishing / CCTV camera
- Solar light / Electric spray
- RV / AGV / Golf Cart
- Camper / Electric Boat
- Household Energy Storage

Product Features

- Easy to carry
- Built-in safety
- Energy dense
- Long cycle life
- Easy to operate
- Climate tolerant
- Support customization
- Environmental protection

Models	DL-LFP-RP1207	DL-LFP-RP1212	DL-LFP-RP1220	DL-LFP-RP1240
Product Specification	12V 7Ah	12V 12Ah	12V 20Ah	12V 40Ah
Nominal Voltage	12.8V	12.8V	12.8V	12.8V
Nominal Capacity	7Ah	12Ah	20Ah	40Ah
Battery Energy	89.6Wh	153.6Wh	256Wh	512Wh
Max Charge Current	4A	5A	10A	20A
Charging Cut-off Voltage	14.6V± 0.2V	14.6V± 0.2V	14.6V± 0.2V	14.6V± 0.2V
Max Discharge Current	7A	10A	20A	40A
Discharging Cut-off Voltage	9.2V± 0.2V	9.2V± 0.2V	9.2V± 0.2V	9.2V± 0.2V
Cell Type	LiFePO4 Battery		LiFePO4 Battery	LiFePO4 Battery
Display	/		/	/
Terminal	Faston 250 (F2)		M5	M6
Case Material	ABS+PC			
Waterproof Level	IP55			
Charge Temperature Range	0~45℃			
Discharge Temperature Range	-5~55℃			
Cycle Life	≥6500 Cycles			
Designed Life	12 Years			
Colour	Black			
Weight	0.76Kg	1.4Kg	2.2Kg	5.8Kg
Dimensions(LxWxH)	151*65*95mm	151*99*95mm	181*76*170mm	195*132*170mm
Assembly Method	Built in			

Models	DL-LFP-RP1275	DL-LFP-RP12100	DL-LFP-RP12120	DL-LFP-RP12200
Product Specification	12V 75Ah	12V 100Ah	12V 120Ah	12V 200Ah
Nominal Voltage	12.8V	12.8V	12.8V	12.8V
Nominal Capacity	75Ah	100Ah	120Ah	200Ah
Battery Energy	960Wh	1280Wh	1536Wh	2560Wh
Max Charge Current	30A	70A	70A	100A
Charging Cut-off Voltage	14.6V± 0.2V	14.6V± 0.2V	14.6V± 0.2V	14.6V± 0.2V
Max Discharge Current	80A	100A	100A	200A
Discharging Cut-off Voltage	9.2V± 0.2V	9.2V± 0.2V	9.2V± 0.2V	9.2V± 0.2V
Cell Type	LiFePO4 Battery			
Display	LCD (Optional)			
Terminal	M8			
Case Material	ABS+PC			
Waterproof Level	IP55			
Charge Temperature Range	0~45℃			
Discharge Temperature Range	-5~55℃			
Cycle Life	≥6500 Cycles			
Designed Life	12 Years			
Colour	Black			
Weight	9.8Kg	11.2Kg	≤ 16Kg	20Kg
Dimensions(LxWxH)	260*168*211mm	329*172*214mm	352*174*189mm	522*239*218mm
Assembly Method	Built in			



GOLF CART BATTERY



Applicable Scope

- AGV
- Forklift
- Golf cart
- Electric Boat

Product Features

- Built-in safety
- Energy dense
- Long cycle life
- Easy to operate
- Climate tolerant
- Support customization
- Environmental protection

Models	DL-GP5150	DL-GP51100
Product Specification	51.2V 50Ah	51.2V 100Ah
Nominal Voltage	51.2V	51.2V
Nominal Capacity	50Ah	100Ah
Battery Energy	2560Wh	5120Wh
Max Charge Current	20A	70A/100A
Charging Cut-off Voltage	57.6V± 0.2V	57.6V± 0.2V
Max Discharge Current	50A	100A/200A
Discharging Cut-off Voltage	44.8V± 0.2V	44.8V± 0.2V
Cell Type	LiFePO4 Battery	
Terminal	M8 screw / Anderson	
Case Material	Metal Box	
Communication Mode	RS485 or BT (Optional)	
Charge Temperature Range	0~45℃	
Discharge Temperature Range	-5~55℃	
Cycle Life	≥6500 Cycles	
Designed Life	12 Years	
Colour	Black	
Weight	25Kg	42Kg
Dimensions(LxWxH)	335*252*180mm	410*285*248mm
Assembly Method	M10 screw / Battery Compartment	

Models	DL-GP51150	DL-GP51200
Product Specification	51.2V 150Ah	51.2V 200Ah
Nominal Voltage	51.2V	51.2V
Nominal Capacity	150Ah	200Ah
Battery Energy	7680Wh	10240Wh
Max Charge Current	70A/100A	100A
Charging Cut-off Voltage	57.6V± 0.2V	57.6V± 0.2V
Max Discharge Current	100A/200A	200A
Discharging Cut-off Voltage	44.8V± 0.2V	44.8V± 0.2V
Cell Type	LiFePO4 Battery	
Terminal	M8 screw / Anderson	
Case Material	Metal Box	
Communication Mode	RS485 or BT (Optional)	
Charge Temperature Range	0~45℃	
Discharge Temperature Range	-5~55℃	
Cycle Life	≥6500 Cycles	
Designed Life	12 Years	
Colour	Black / white	
Weight	57Kg	78Kg
Dimensions(LxWxH)	600*275*290mm	560*360*252mm
Assembly Method	M10 Screw / Battery Compartment	

## RV LIFEPO4 BATTERIES

### Applicable Scope

- RV
- Camper
- Electric Boat
- Household Energy Storage

### Product Features

- Easy to carry
- Built-in safety
- Energy dense
- Long cycle life
- Easy to operate
- Climate tolerant
- Support customization
- Environmental protection



Models	DL-LFP-RV12200	DL-LFP-RV12280
Product Specification	12V 200Ah	12V 280Ah
Nominal Voltage	12.8V	12.8V
Nominal Capacity	200Ah	280Ah
Battery Energy	2560Wh	3584Wh
Max Charge Current	70A	70A
Charging Cut-off Voltage	14.6V± 0.2V	14.6V± 0.2V
Max Discharge Current	200A	200A
Discharging Cut-off Voltage	9.2V± 0.2V	9.2V± 0.2V
Cell Type	LiFePO4 Battery	
Display	LCD	
Terminal	M8 / SB50/ SB120/ DC12V* 2	
Case Material	Metal Box	
Waterproof Level	/	
Charge Temperature Range	0~45℃	
Discharge Temperature Range	-5~55℃	
Cycle Life	≥6500 Cycles	
Designed Life	12 Years	
Colour	Black and white	Black / Orange
Weight	28Kg	34Kg
Dimensions(LxWxH)	700*395*62mm	520*160*270mm
Assembly Method	Wall Mounted	M10 Screw

## AGV LIFEPO4 BATTERIES

### Applicable Scope

- RV
- Camper
- Electric Boat
- Household Energy Storage

### Product Features

- Easy to carry
- Built-in safety
- Energy dense
- Long cycle life
- Easy to operate
- Climate tolerant
- Support customization
- Environmental protection



Models	DL-LFP-AGV51200	DL-LFP-AGV5140
Product Specification	51.2V 200Ah	51.2V 40Ah
Nominal Voltage	51.2V	51.2V
Nominal Capacity	200Ah	40Ah
Battery Energy	10.24Kwh	2.048Kwh
Max Charge Current	100A	20A
Charging Cut-off Voltage	57.6V± 0.2V	57.6V± 0.2V
Max Discharge Current	200A	100A
Discharging Cut-off Voltage	44.8V± 0.2V	44.8V± 0.2V
Cell Type	LiFePO4 Battery	LiFePO4 Battery
Display	Lcd	Lead Wire
Terminal	SB120 & SB175	SB50 & SB120
Case Material	Metal Box	
Waterproof Level	/	
Charge Temperature Range	0~45℃	
Discharge Temperature Range	-5~55℃	
Cycle Life	≥6500 Cycles	
Designed Life	12 Years	
Colour	Black	Black
Weight	78Kg	27.5kg
Dimensions(LxWxH)	720*270*270mm	420*240*150mm
Assembly Method	Battery Compartment	Battery Compartment





## AC OUTPUT POWER BANK

### Product Features

- Easy to carry
- Built-in safety
- Energy dense
- Long cycle life
- Easy to operate
- Climate tolerant
- Environmental protection

### Widely Compatible

- TV • Fan
- Drone • Laptop
- Phone&Pad • Mini Fridge
- Table Lamp • Flashlight



Models	DL-UP1200
Product Specification	22.4V 45Ah
Nominal Voltage	22.4V
Nominal Vapacity	45Ah
Energy	1008Wh
Cell Type	LiFePO4 battery
Display	LED Digital Display
Socket Selficatin	EU / US / AU / UK(Support Customization)
DC Input	5~28V/6A 168W Max / PV(XT30) 18V 6A
Type-C Input	5V~20V 100W Max
USB Output	5V 3A/ 9V 2A/ 12V 1.5A 18W Max
Type-C Output (PD)	5V~20V 65W Max
DC Output	DC1+DC2+ DC2+CAR DC 12V/10A
AC Output	100V ~ 120V / 200V ~ 240V : 50Hz/60Hz (1200W Max Pure Sine Wave)
EC5 Car Jump Starter	/
LED Light	3W
Charge Temperature Range	-10~50°C
Discharge Temperature Range	-20~55°C
Cycle Life	≥3000 Cycles
Colour	Black / Bark Grey
Weight	11.5Kg
Dimensions(LxWxH)	330*270*270mm

Models	DL-UP100	DL-UP200	DL-UP300	DL-UP600
Product Specification	14.8V 5.4Ah	14.8V 10Ah	14.8V 20Ah	14.8V 40Ah
Nominal Voltage	14.8V	14.8V	14.8V	14.8V
Nominal Vapacity	5.4Ah	10Ah	20Ah	40Ah
Energy	79.92Wh	148Wh	296Wh	592Wh
Cell Type	Li-ion Battery			
Display	LED Digital Display			
Socket Selficatin	EU / US / AU / UK(Support Customization)			
DC Input	16.8V 1.5A / 16.8V 3A (Optional)			
Type-C Input	5V~20V 60W Max	5V~20V 60W Max	5V~20V 100W Max	5V~20V 100W Max
USB Output	5V 3A/ 9V 2A/ 12V 1.5A 18W Max			
Type-C Output (PD)	5V~20V 60W Max	5V~20V 60W Max	5V~20V 100W Max	5V~20V 100W Max
DC Output	12V 3A	12V 3A	12V 10A	12V 10A
AC Output	110V / 220V : 50Hz/60Hz (80W max Correction wave)	110V / 220V : 50Hz/60Hz (200W max Correction wave)	110V / 220V : 50Hz/60Hz (300W max Pure sine wave)	110V / 220V : 50Hz/60Hz (600W max Pure sine wave)
EC5 Car Jump Starter	/	12V 300A (Instantaneous)	12V 400A (Instantaneous)	12V 500A (Instantaneous)
LED Light	3W	/	5W	5W+3W
Charge Temperature Range	-10~50°C	-10~50°C	-10~50°C	-10~50°C
Discharge Temperature Range	-20~55°C	-20~55°C	-20~55°C	-20~55°C
Cycle Life	≥800 Cycles	≥800 Cycles	≥800 Cycles	≥800 Cycles
Colour	Black / Grey	Black / Grey	Black / Grey / Orange	Black / Bark Grey
Weight	0.8Kg	1.6Kg	3.4Kg	6.82Kg
Dimensions(LxWxH)	174*63*63mm	230*80*80mm	235*145*125mm	230*226*186mm



EBIKE ( ELECTRIC BICYCLE ) BATTERY



Models	DL-EB-SILVERFISH series	DL-EB112	DL-EB046
Max Cell Space	18650 65pcs	18650 80pcs	18650 52pcs
Configration	10S6P / 13S5P	10S8P / 13S6P /14S5P	10S5P / 13S4P
Max Capacity	36V21Ah Max 48V17.5Ah Max	36V28Ah Max 48V21Ah Max 52V17.5Ah Max	36V17.5Ah Max 48V14Ah Max
Shell Material	Aluminun alloy / PC+ABS	Aluminun 6061 / PC+ABS	PC+ABS
Charging Port	RCA / 3 PIN CANNON port	3 PIN CANNON port	DC2.1 Port
Discharging Port	2pin / 3pin / 4pin	Self-made 4pin/Gold plated 6pin	Self-made 4pin
Capacity Indicator	3/4 lever LED capacity indicator	4 Lever LED capacity indicator	4 Lever LED capacity indicator
Dimension (LxWxH)	390*113*75mm	367.4*90.3*127.3mm	367.5*90.3*89.5mm
Other	Support multiple port collocations	/	/
Lock	Mechanical lock		
Weight	Variable according to voltage capacity		



Models	DL-EB-TB106A	DL-EB006	DL-EB-Triangle series
Max Cell Space	18650 60pcs	18650 52pcs	18650 104pcs
Configration	10S6P / 13S4P	10S5P /13S4P	13S8P / 14S7P
Max Capacity	36V21Ah Max 48V14Ah Max	36V17.5Ah Max 48V14Ah Max	48V28Ah Max 52V24.5Ah Max
Shell Material	Aluminun alloy / PC+ABS	Aluminun 6061 / PC+ABS	Nonwovens
Charging Port	DC2.1/ RCA Port	DC2.1Port / RCA Port	DC2.1 Port
Discharging Port	3 Pin socket / Anderson / Lead wire	Self-made 4pin	Lead wire
Capacity Indicator	Without / Optional	4 Lever LED capacity indicator	/
Dimension (LxWxH)	360*148*72mm	434.1*150.5*65.4/106.5mm	Support customization
Other	Optional with tail lights		Support multiple port collocations
Lock	Mechanical Lock		/
Weight	Variable according to voltage capacity		