LITHIUM BATTERY FOR SOLAR ENERGY STORAGE SYSTEM

PRODUCT SPECIFICATIONS

PRODUCT FEATURES

Solar East Lithium batteries are widely used for residential energy storage, small UPS system, off-grid solar home storage system, etc. It has excellent charge & discharge performance, long service life, high safety and reliability, and easy installation.

Deep cycling and long service life

Modular design and easy to install

Excellent safety performance

Communication protocol CAN, RS485

Supporting Parallel Expansion

Good Compatibility and wide applications

ENERGY STORGAGE BATTERY 4U/5U RACK-MOUNTED

General Specifications

Item NO.	DL-LFP51.2V100AH	DL-LFP51.2V200AH	DL-LFP51.2V300AH
Battery Energy	≥5.12 kWh	≥10.24 kWh	≥15.36 kWh
Battery Type	LiFePO4	LiFePO4	LiFePO4
Rated Battery Voltage	51.2V	51.2V	51.2V
Battery Capacity	100Ah	200Ah	300Ah
Constant Charging Current	100A(1C)	150A(0.75C)	150A(0.5C)
Constant Discharging Current	100A(1C)	150A(0.75C)	150A(0.5C)
Depth of Discharging	≥95%		
Max Parallel Quantity	32		
Life-Span (25°C)	≥ 6000 cycles		
Operating Temperature	Charge: 0 ~ 60°C, Discharge: -15°C~65°C		
Storage Temperature	-20°C~40°C		
Case Material	Metal		
Installation Way	Rack-mounted		
Communication	RS485/CAN/ Customized		
Production Size	450*510*205mm	450*510*410mm	450*510*615mm
Package Size	500*560*255mm	500*560*460mm	500*560*665mm
Production Weight	40.8kg	79.3kg	102kg
Package Weight	45.3kg	89.3kg	120kg

WALL-MOUNTED SERIES

51.2V Wall-mounted energy storage battery modules

- 5KWH 51.2V100^{a}H LiFePO4 battery modules.
- Excellent quality Brand new Grade A cells, designed life 20 years.
- 5KW Maximum output.
- Built-in Smart BMS.
- Can be expanded capacity up to 10 units in parallel.
- RS485/CAN, compatible with most brand inverters.
- Easy to install.

Lithium Iron Phosphate Energy Storage Battery For Residential & Commercial use

ENERGY STORGAGE BATTERY WALL-MOUNTED

General Specifications

Item NO.	DL-LFP51.2V100AH-G	DL-LFP51.2V200AH	DL-LFP51.2V300AH
Battery Energy	≥5.12 kWh	≥10.24 kWh	≥15.36 kWh
Battery Type	LiFePO4	LiFePO4	LiFePO4
Rated Battery Voltage	51.2V	51.2V	51.2V
Battery Capacity	100Ah	200Ah	300Ah
Constant Charging Current	100A(1C)	150A(0.75C)	150A(0.5C)
Constant Discharging Current	100A(1C)	150A(0.75C)	150A(0.5C)
Depth of Discharging	≥95%		
Max Parallel Quantity	32		
Life-Span (25°C)	≥ 6000 cycles		
Operating Temperature	Charge: 0 ~ 60°C, Discharge: -15°C~65°C		
Storage Temperature	-20°C~40°C		
Case Material	Metal		
Installation Way	Rack-mounted		
Communication	RS485/CAN/ Customized		
Production Size	640*405*160mm	650*417*246mm	868*485*245mm
Package Size	700*535*240mm	715*465*385mm	910*535*400mm
Production Weight	43.8kg	81.4kg	117.8kg
Package Weight	45.3kg	90.5kg	130kg

3.2V PORTABLE POWER GENERATOR

General Specifications

Model No.	DL-LFP3.2V314AH-Y
Rated/Peak Power	300W / 500W
Rated Battery Capacity	1004.8Wh
Battery Chemical	LiFePO4 Battery 3.2V 314Ah(Grade-A)
AC output voltage	220Vac/50Hz (Pure sine wave)
AC charging power	6-8 hours for full charge from 0%
PV input voltage	12-60V
Max. PV input power	Max. PV Array Power 200W / 15A
Inverter efficiency	>80%
AC output	2x 220V
Output Overcurrent Protection	AC 220V 1.4A
DC output	USB Output: 5V/3A*1 QC3.0*1 Type C Output:PD3.0(18W: 5V/3A, 9V/2A)
Operating Temperature	0°C~60°C
Dimension/Weight	320x220x142mm/ 8.9Kg
Certification	UN38.3/MSDS/IEC62133
Protection	Overcharge and overdischarge/Overcurrent protection Overload protection/Short circuit protection/Fault protection

FEATURES & BENEFITS

Longer cycle life

6000 cycles @80% DoD for effectively lower total costof ownership.

Multiple Discharging Modes

USB Output: 5V2A Type C Output: Max. 20W/30W
AC Output: 220V/300W or 110V/300W(optional)

Maintenance-free

Low maintenance batteries with stable chemistry.

Lightweight & Safety

Automotive-grade safety performance Lithium Iron Phosphate battery integrated which has more Wh/Kg

Built in circuit protection

Protection Circuit Module (PCM) is incorporated against abuse.

Pure sine wave

110V or 220V AC pure sine wave inverter

Solar charge Modes (Optional)

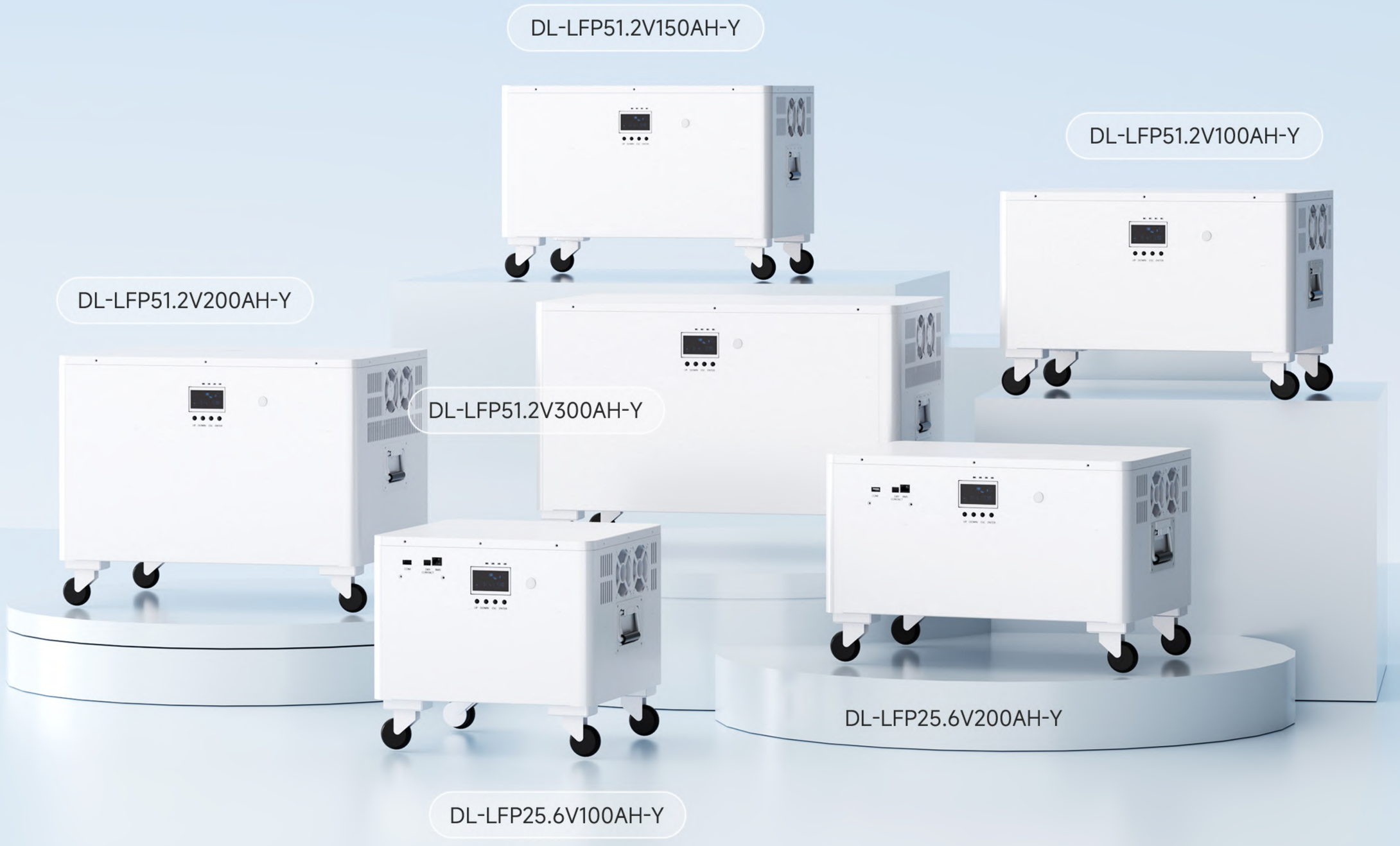
MPTT integrated.

LED Emergency Light (part)

3W LED emergency Light

AC&DC output

DC & 110V or 220V AC out put.


DL-LFP51.2V150AH-Y
DL-LFP51.2V100AH-Y
DL-LFP51.2V200AH-Y
DL-LFP51.2V300AH-Y
DL-LFP25.6V200AH-Y
DL-LFP25.6V100AH-Y

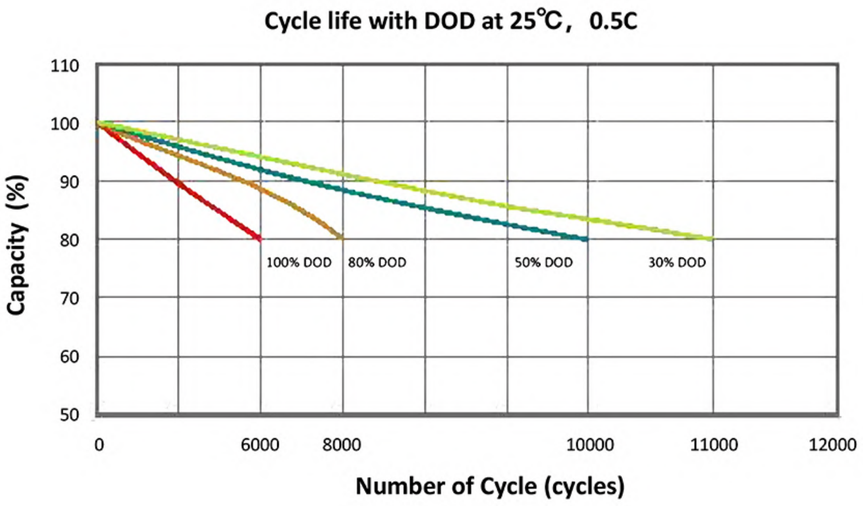
PORTABLE POWER STATION

General Specifications

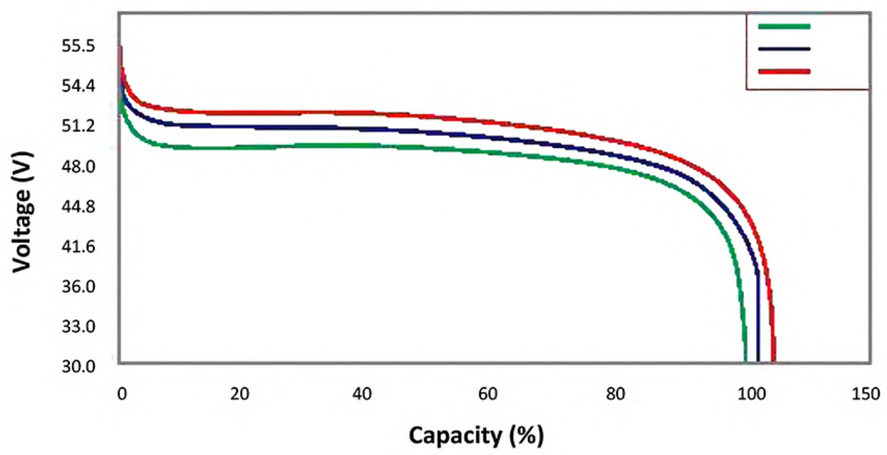
Item NO.	DL-LFP 25.6V100AH-Y	DL-LFP 25.6V200AH-Y	DL-LFP 51.2V150AH-Y	DL-LFP 51.2V200AH-Y	DL-LFP 51.2V300AH-Y
Battery Energy	≥2.56 kWh	≥5.12 kWh	≥7.68 kWh	≥10.24 kWh	≥15.36 kWh
Battery Type	LiFePO4	LiFePO4	LiFePO4	LiFePO4	LiFePO4
Rated Battery Voltage	25.6V	25.6V	51.2V	51.2V	51.2V
Battery Capacity	100Ah	200Ah	150Ah	200Ah	300Ah
Inverter Rated /Peak Power	1kW/2kW	3kW/6kW	5kW/10KW, Customized		
MPPT Working Max Current	30A	50A	40A	50A	80A
MPPT Working Voltage	DC34~150V	DC34~150V	DC65~150V	DC65~150V	DC65~150V
Solar panel Max Power	840W	1400W	2270W	2800W	4540W
Nominal Output Voltage rms	100-110-120Vac/220-230-240Vac				
Depth of Battery Discharging	≥95%				
Battery Lifespan (25°C)	≥ 6000 cycles				
Operating Temperature	Charge: 0 ~ 60°C, Discharge: -15°C~65°C				
Storage Temperature	-20°C~40°C				
Case Material	Metal				
Installation Way	hand-held/Wheel				
Communication	RS485/CAN/ Customized				
Production Size	365*361*256mm	515*361*273mm	550*412*273mm	550*412*355mm	643*412*359mm
Package Size	415*411*306mm	565*411*323mm	600*462*323mm	600*462*405mm	693*462*409mm
Production Weight	32.6kg	47.1kg	75.3kg	85.1kg	107.5kg
Package Weight	37.6kg	53.1kg	86.3kg	97kg	130kg

PERFORMANCE CHARACTERISTICS

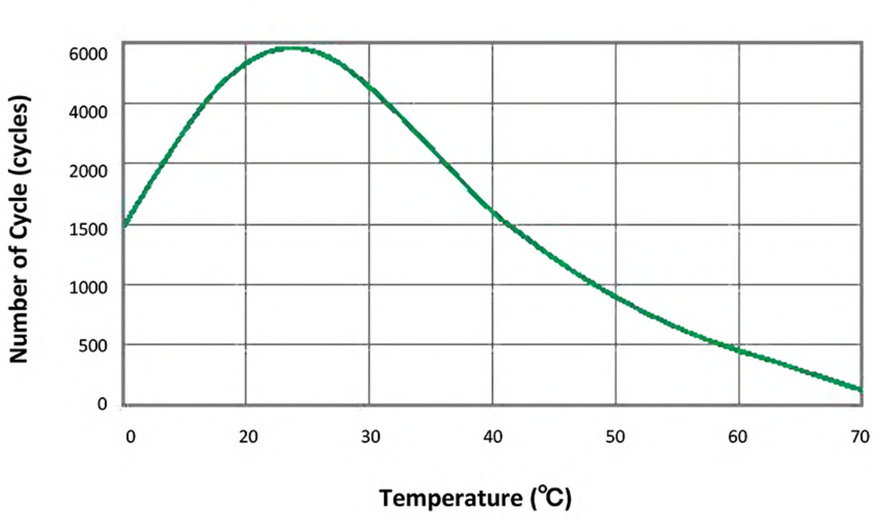
Number of Cycles Vs. DOD



Discharge Performance at R.T.

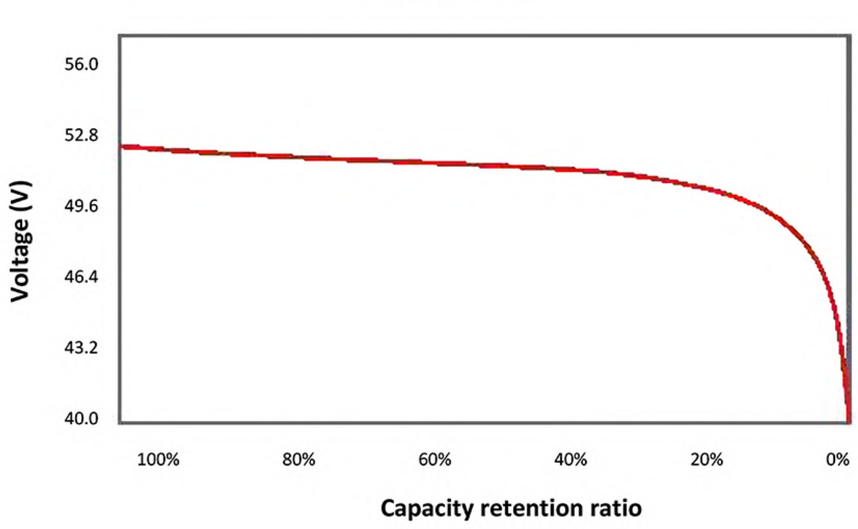


Cycle Life in Relation to Temperature

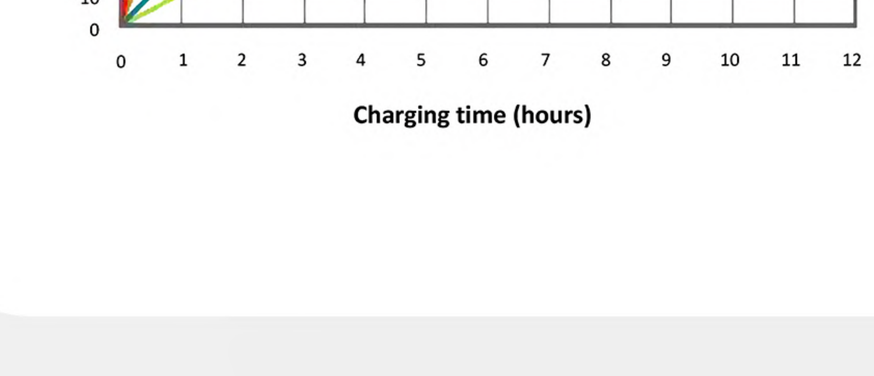
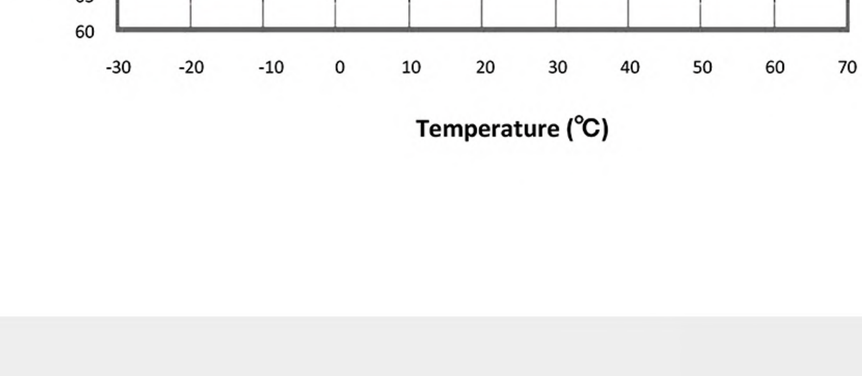


Battery Capacity (C) Vs. Open Circuit Voltage (OCV)

SOC Vs OCV



Battery Capacity Vs. Charging Time



Temperature Effects on Capacity