

connecting to


**LEGACY**

# HOME POWER STORAGE

**LR SERIES**

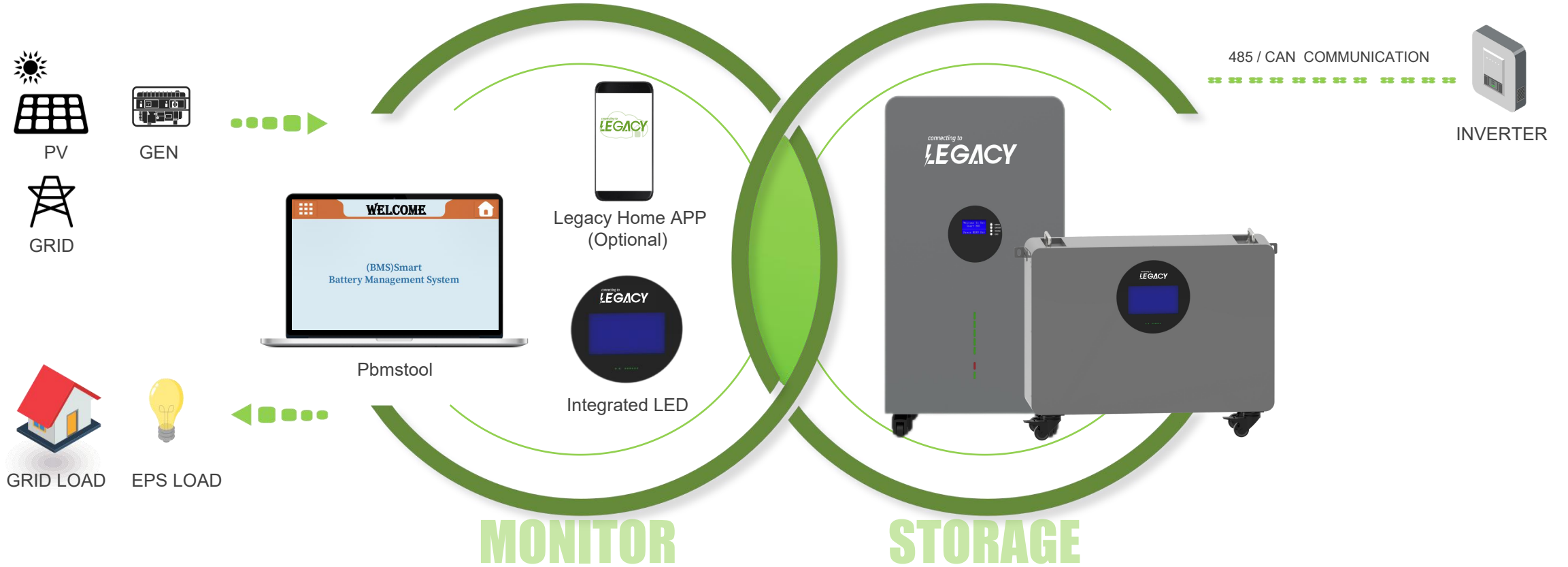
[www.connectinglegacy.com](http://www.connectinglegacy.com)



-  Quebec, Canada
-  Beirut, Lebanon
-  Hongkong, China

# WORKING DIAGRAM

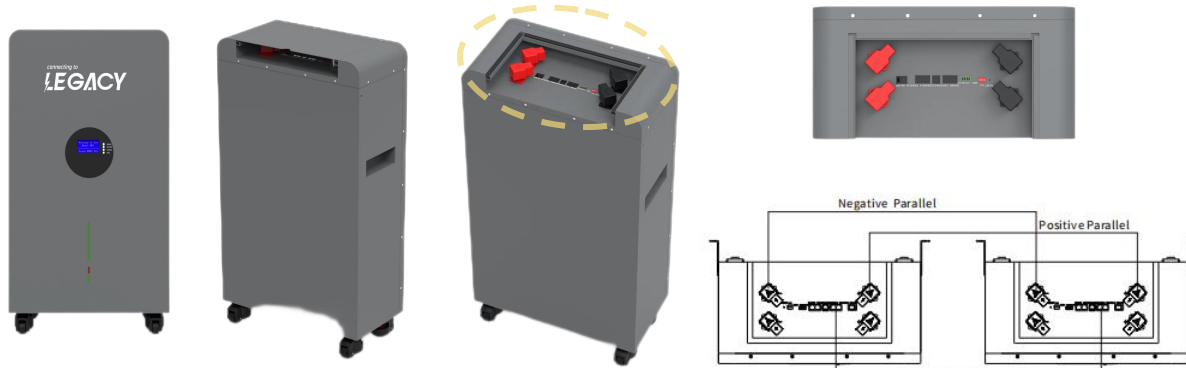
connecting to  
**LEGACY**



- 1 PERFECT PERFORMANCE**
  - > Legacy products are designed in Canada, assembled in China.
  - > Support 1C fast charge and discharge.
  - > Up to 15 units parallel.
  - > Legacy battery achieves IEC/ UL standard.
- 2 BEST SERVICE**
  - > Legacy can monitor, control and upgrade by cloud.
  - > Strong technical support.
  - > High cooperation with client.
  - Legacy service never ends.
- 3 HIGH LEVEL OF SATFY**
  - > BMS & Breaker two Level to over heat, over voltage, and over current protection.
  - > Legacy is produced by high specification of production and tested one-by-one strictly before package.
- 4 HIGH COMPATIBILITY**
  - > Compatible with most inverter brands on the market..
  - > Legacy can be programmed to work with specified inverter and customized to your exclusive requestments.



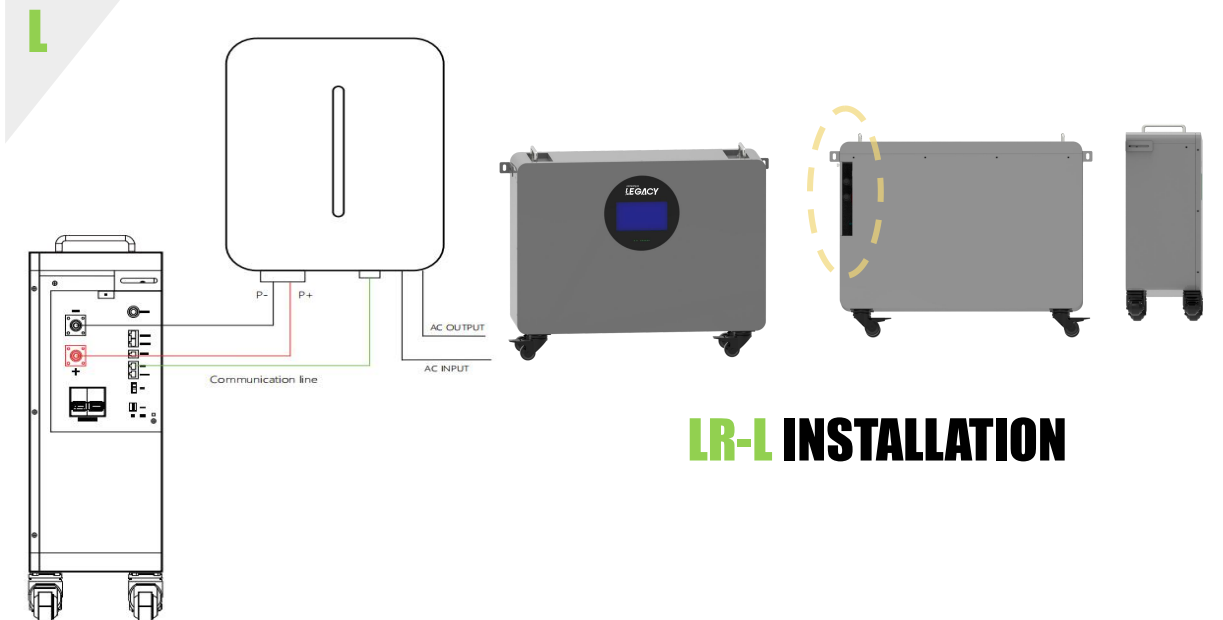
# LR-H N LR-H MECHANICAL PARAMETER



MODEL	LRH-51200	LRH-51280	LRH-51305
Product Dimension(Mm)	500*250*840	500*250*840	500*250*840
Package Dimension(Mm)	660*360*980	660*360*980	660*360*980
Net weight(Kg)	95	120	130
Gross weight(Kg)	115	140	150
Material system	LiFePO4		
Case material / Type / IP class	Metal / Movable Wheel / IP20(IP65 optional)		

## LR-H INSTALLATION

MODEL	LRL-51100	LRL-51200	LRL51280	LRL51305	LRL51314
Product Size(Mm)	612*370*190	622*520*227	766*520*221	766*520*221	766*520*221
Package Size(Mm)	712*535*298	722*695*328	866*695*328	866*695*328	866*695*328
Net weight(Kg)	55	92	115	120	125
Gross weight(Kg)	60	112	135	140	145
Material system	LiFePO4				
Case material / Type / IP class	Metal / Movable Wheel / IP20				



## LR-L INSTALLATION

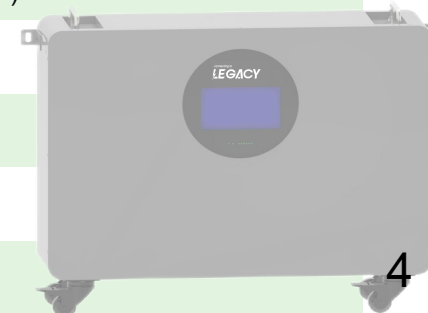
# LR-H CHARACTERISTICS

Characteristics / Model		LRH-51200	LRH-51280	LRH305
Electrical Characteristics	Rate voltage(Vdc)	51.2	51.2	51.2
	Cell combination	16S1P	16S1P	16S1P
	Rate capacity(AH)	200	280	305
	Energy storage(WH)	10240	14336	15616
	Cycle life	25±2°C, 0.5C / 0.5C, EOL70% ≥ 6000		
Charge/Discharge Standard	Charge voltage(V)	56	56	56
	Max.charge current(A)	100	150 (200 optional)	200
	Max.discharge current(A)	100	150 (200 optional)	200
	Charge cut-off Voltage(Vdc)	58.4	58.4	58.4
	Discharge cut-off Voltage(Vdc)	44.8	44.8	44.8
Certification	Pack certification	UN38.3 / MSDS	CE / IEC / UL1973	CE / UN38.3 / MSDS
	Cell certification	UN38.3 / MSDS / CE / IEC62619 / UL1973 / UL2054 (A Class brand new cell)		
Communication	Protocol(Optional)	CAN / RS485 / RS232		
	Control and Monitor system	Pmbstool (Optional: Bluetooth / Wifi / Wlan by Legacy Home APP)		
Enivorment	Charge temperature	0°C ~ 50°C @ 60 ± 25% Relative Humidity		
	Discharge and storage temperature	-20°C ~ 50°C @ 60 ± 25% Relative Humidity		



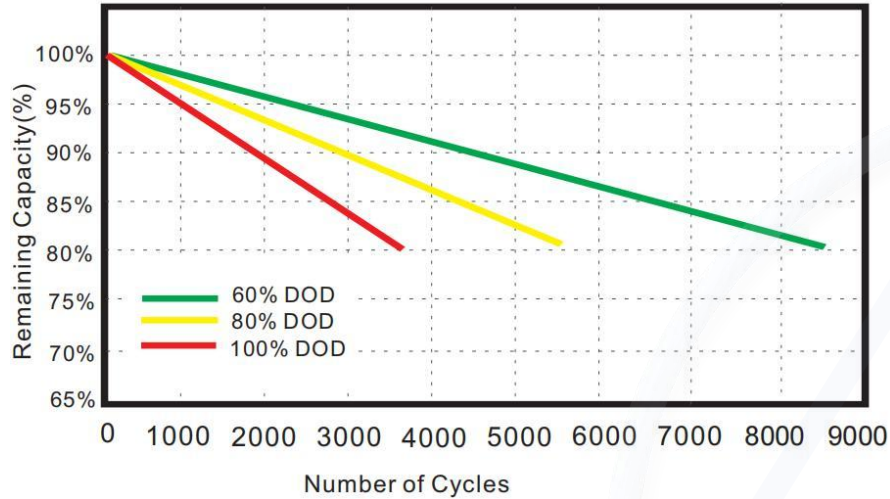
# LR-L CHARACTERISTICS

Characteristics / Model		LRL51100	LRL51205	LRL51280	LRL51305	LRL51314
Electrical	Rate voltage(Vdc)	51.2	51.2	51.2	51.2	51.2
	Cell combination	16S1P	16S1P	16S1P	16S1P	16S1P
	Rate capacity(AH)	100	205	280	305	314
	Energy storage(WH)	5120	10496	14336	15516	16076.8
	Cycle life	25±2°C, 0.5C / 0.5C, EOL70% ≥ 6000				
Charge/Discharge	Charge voltage(V)	56	56	56	56	56
	Max.charge current(A)	100	150 (200 optional)	150 (200 optional)	200	200
	Max.discharge current(A)	100	150 (200 optional)	150 (200 optional)	200	200
	Charge cut-off Voltage(Vdc)	58.4	58.4	58.4	58.4	58.4
	Disharge cut-off Voltage(Vdc)	43.2	43.2	43.2	43.2	43.2
Certification	Pack certification	UN38.3 / MSDS				
	Cell certification	UN38.3 / MSDS / CE / IEC62619 / UL1973 / UL2054 (A Class brand new cell)				
Communication	Protocol(Optional)	CAN / RS485 / RS232				
	Control & Monitor system	Pmbstool (Optional: Bluetooth / Wifi / Wlan by Legacy Home APP)				
Enivorment	Charge temperature	0°C ~ 50°C @ 60 ± 25% Relative Humidity				
	Discharge & storage temperature	-20°C ~ 50°C @ 60 ± 25% Relative Humidity				

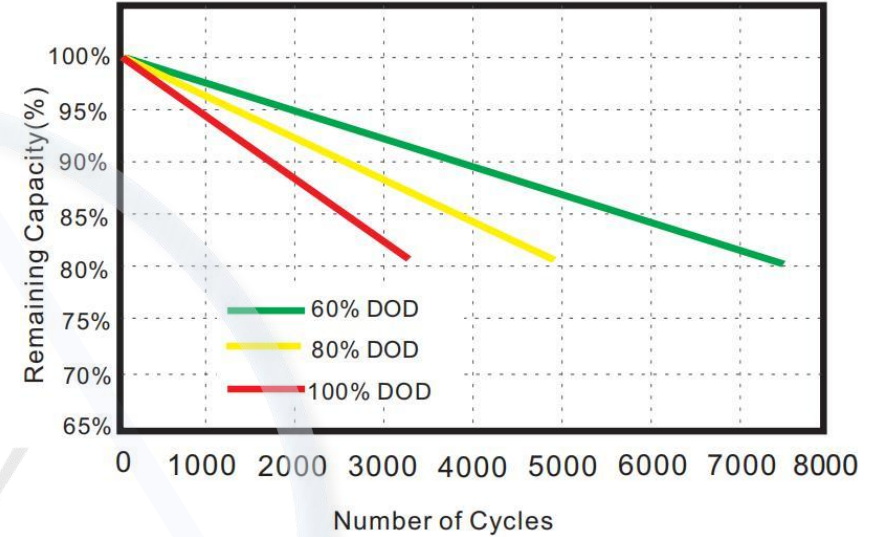


# LR SERIES LIFE CURVES OF DISCHARGE DEPTH

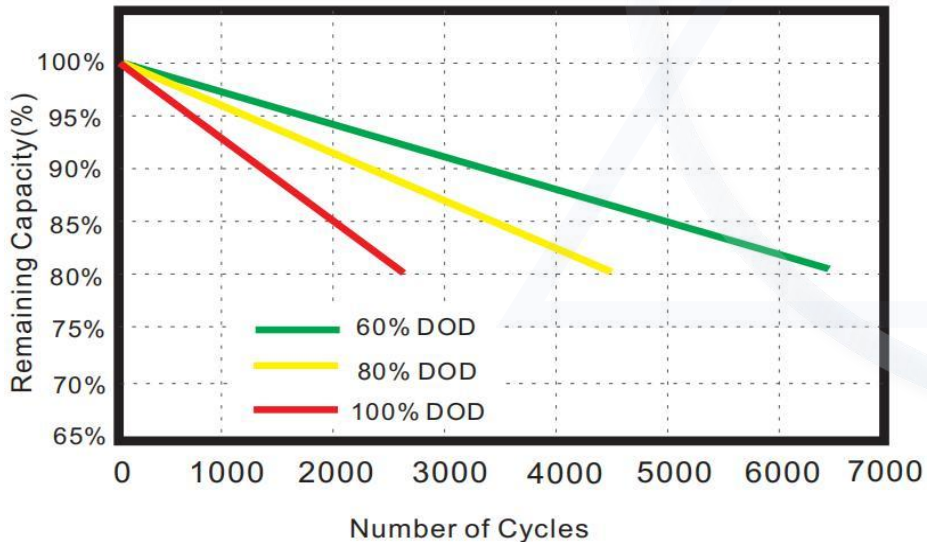
1 Discharge depth curves of ife circle @ 25°C



2 Discharge depth of ife curves @ 35°C



3 Discharge depth curves of ife circle @ 45°C



## DESIGN WORKING LIFE: 20 YEARS

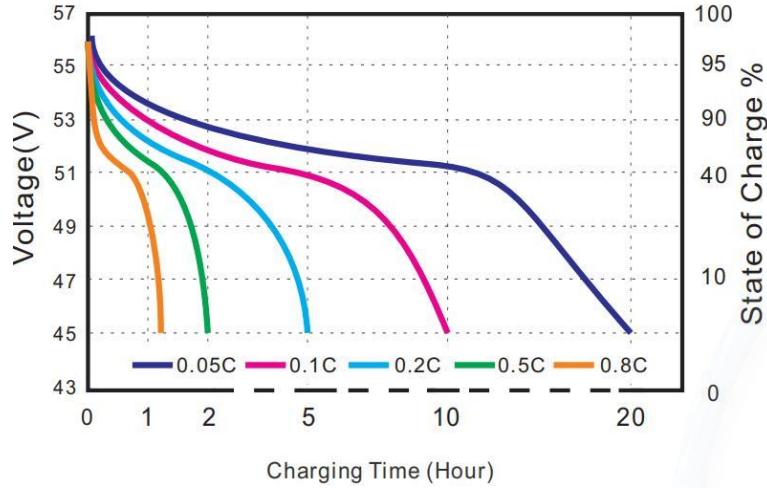
Temperature	60% DOD	80% DOD	100% DOD
25°C	8500 times	5500 times	3600 times
35°C	7500 times	5000 times	3100 times
45°C	6500 times	4500 times	2600 times

\*The above datas are average values, and can be obtained within three charge/discharge cycles.

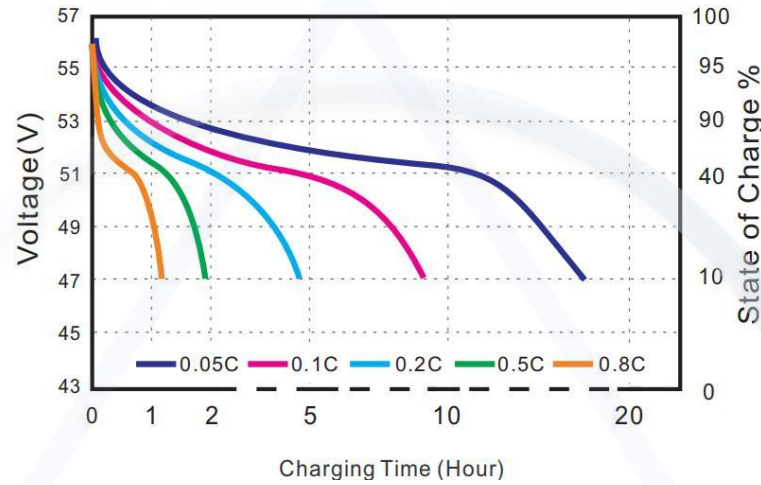
\*These are not minimum values. Cell and battery designs or specifications are subject to modification without notice.

# LR SERIES DISCHARGE CURVES OF DIFFERENT RATE

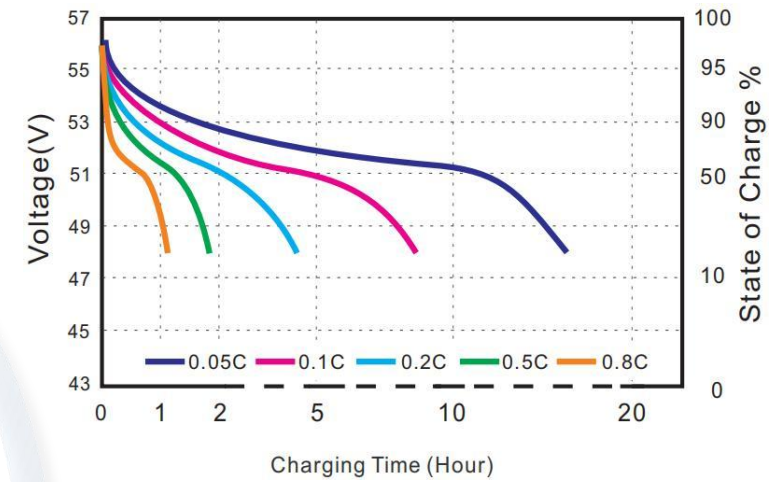
1 Discharge curves of different rate @ 95% DOD



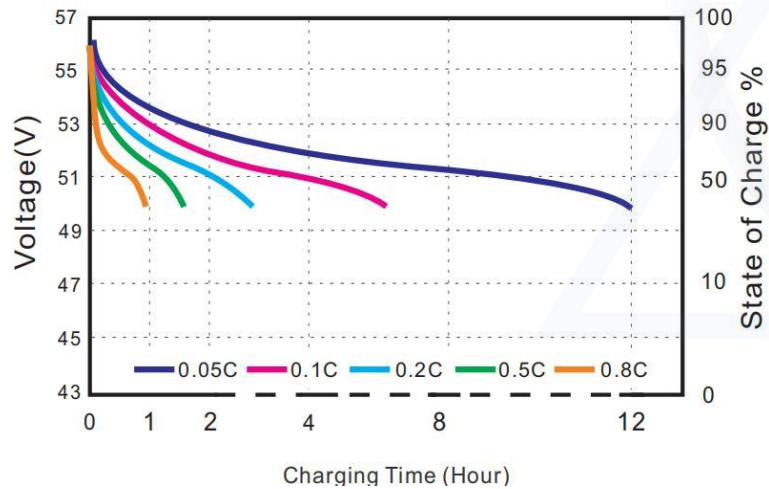
2 Discharge curves of different rate @ 90% DOD



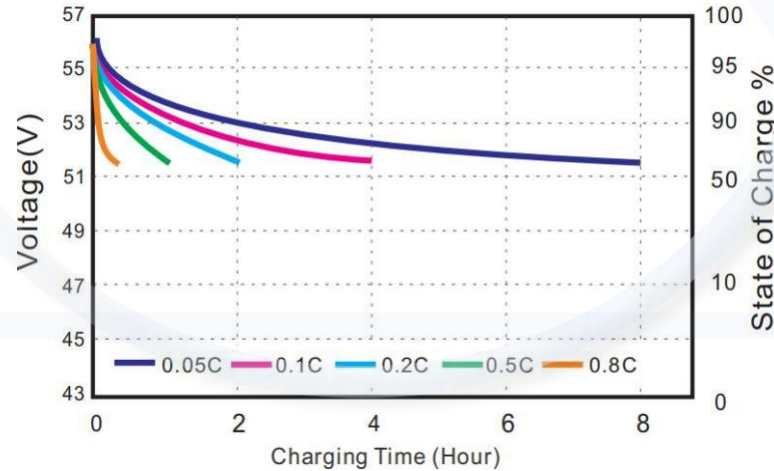
3 Discharge curves of different rate @ 80% DOD



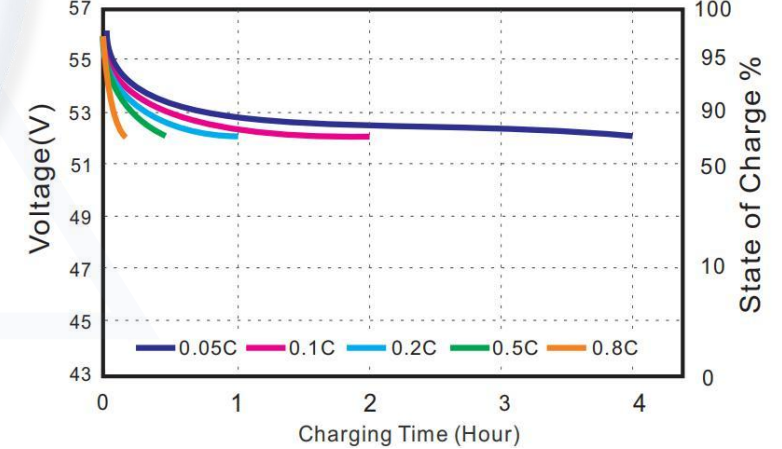
4 Discharge curves of different rate @ 60% DOD



5 Discharge curves of different rate @ 40% DOD



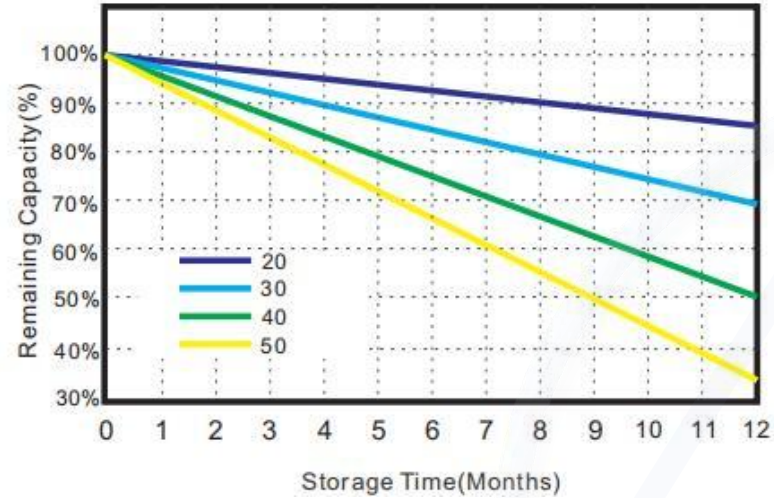
6 Discharge curves of different rate @ 20% DOD



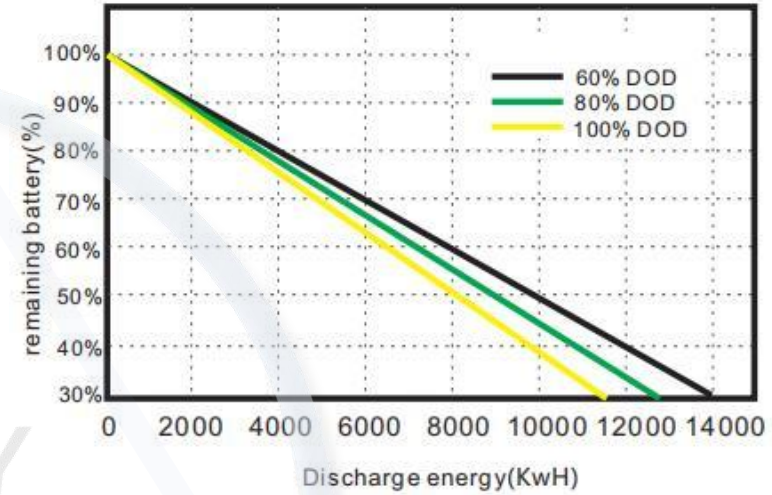
\*The above datas are average values, and can be obtained within three charge/discharge cycles. \*These are not minimum values. Cell and battery designs or specifications are subject to modification without notice.

# LR SERIES LABORATORY CHARACTERISTICS

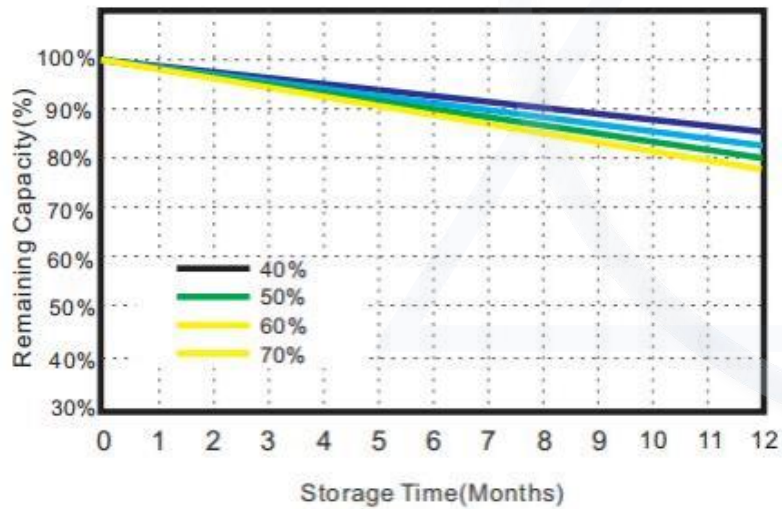
1 Different temperature self-discharge curves @ RH 50 %



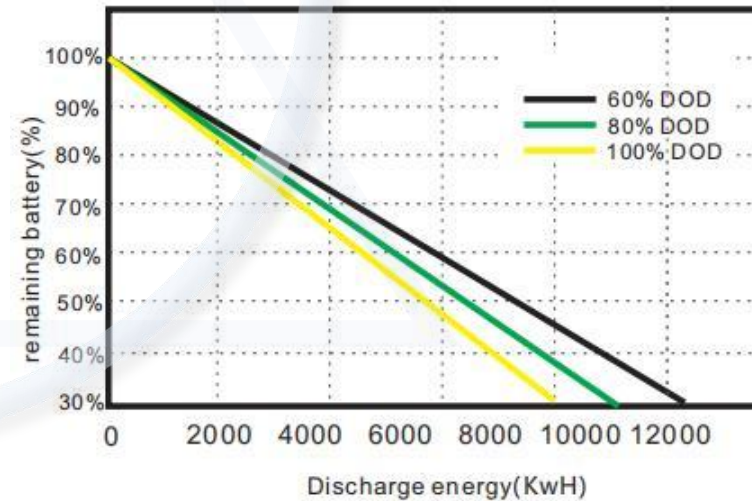
2 Different DOD total energy exchange @ 25°C/0.5C



3 Different humidity discharge curves @ 25°C



4 Different DOD total energy exchange @ 40°C/0.5C



\*The above data are average values, and can be obtained within three charge/discharge cycles. \*These are not minimum values. Cell and battery designs or specifications are subject to modification without notice.





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