

connecting to
LEGACY

HOME P WER STORGAE

TH-SERIES TOUCH BLUETOOTH WIFI

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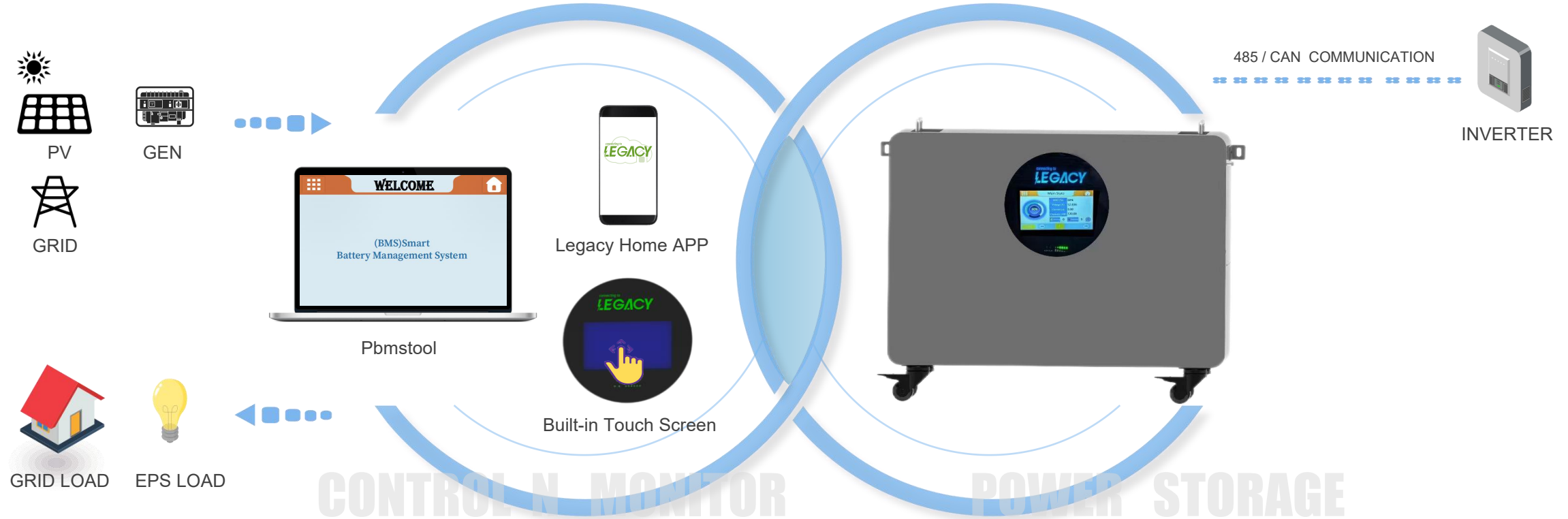
TH-51628-M



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

TH-51628-M WORKING DIAGRAM

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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.

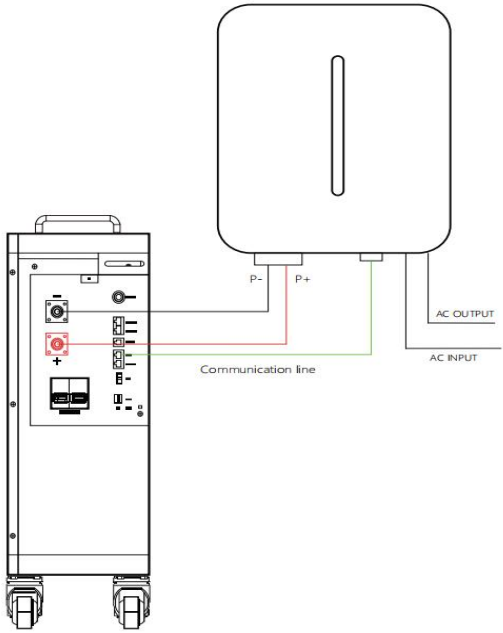
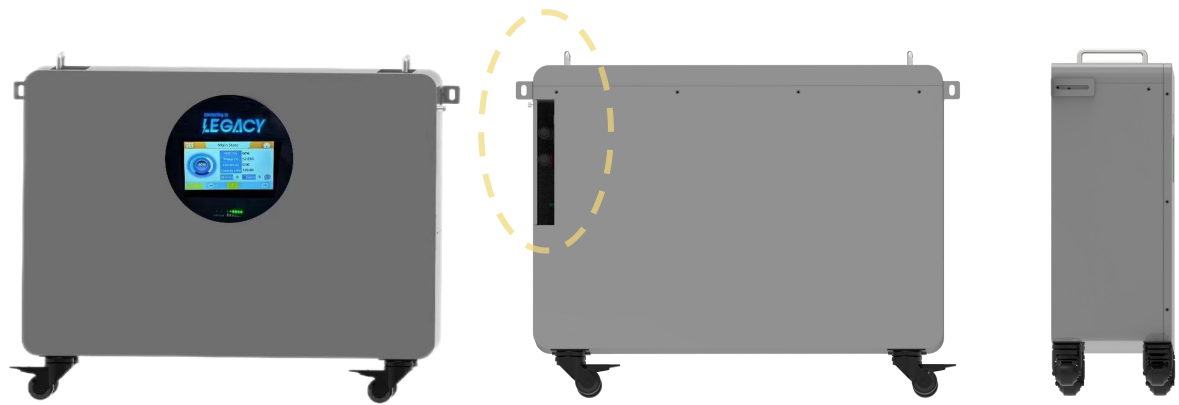
4

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.



TH-51628-M MECHANICAL PARAMETER



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TH-51628-M INSTALLATION

**WHEEL-
STANDTED**

MODEL	TH-51628-M
Product Dimension(Mm)	766*408*614
Package Dimension(Mm)	866*695*725
Net weight(Kg)	222
Gross weight(Kg)	237
Material system	LiFePO4
Case material / Type / IP class	Metal / Movable Wheel / IP20

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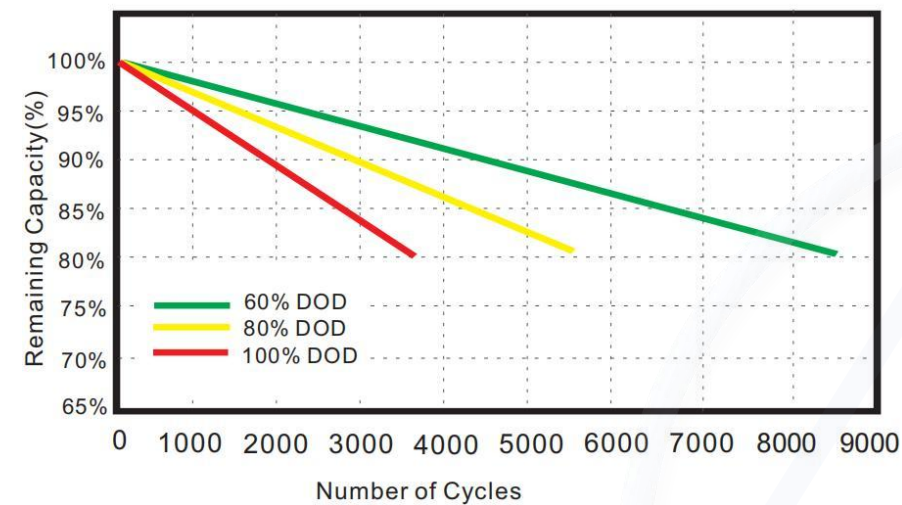
**Legacy Home
Download APP**

TH-51628-M CHARACTERISTICS

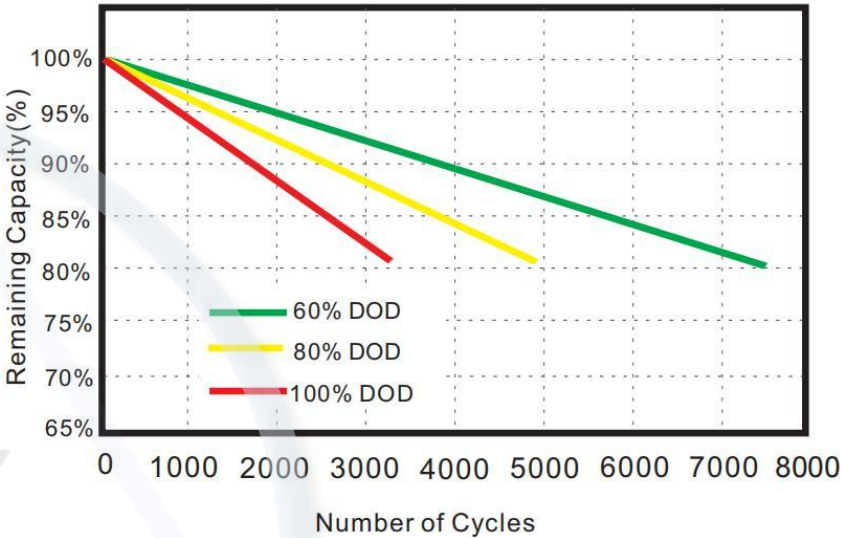
Characteristics / Model		TH-51628-M
Electrical Characteristics	Rate voltage (Vdc)	51.2
	Cell combination	16S2P
	Rate capacity (AH)	628
	Energy storage (WH)	32153.6
	Cycle life	25±2°C, 0.5C / 0.5C, EOL70% ≥ 8000
Charge/Discharge Standard	Charge voltage (V)	56
	Max.charge current (A)	150 (200 optional)
	Max.discharge current (A)	150 (200 optional)
	Charge cut-off voltage (V)	58.4
	Disharge cut-off voltage (V)	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 and monitor system	Bluetooth / Wifi / Wlan by built-in touch screen and 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

TH-51628-M LIFE CURVES OF DISCHARGE DEPTH

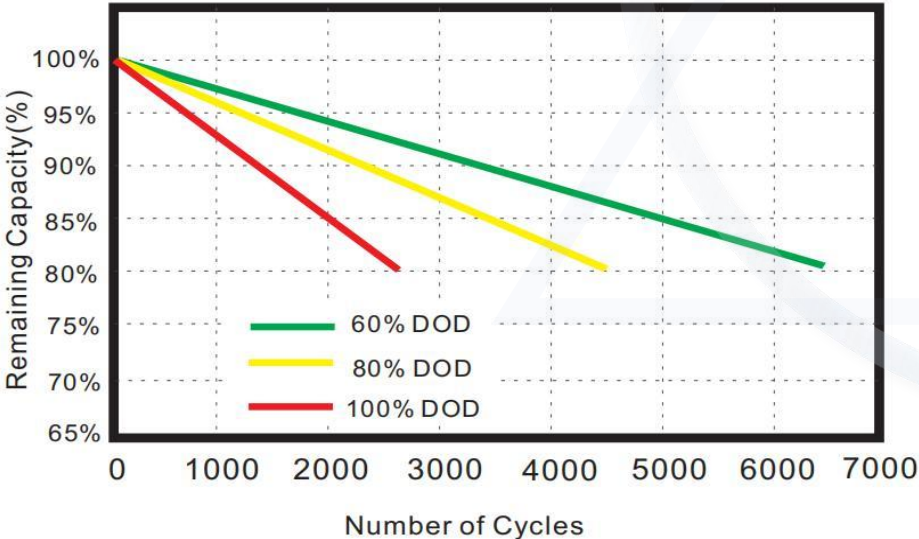
1 Discharge depth curves of ife circle @ 25°C



2 Discharge depth of ife curves @ 35°C



3 Discharge depth curves of ife circle @ 45°C



DESIGN WORKING LIFE: 20 YEARS

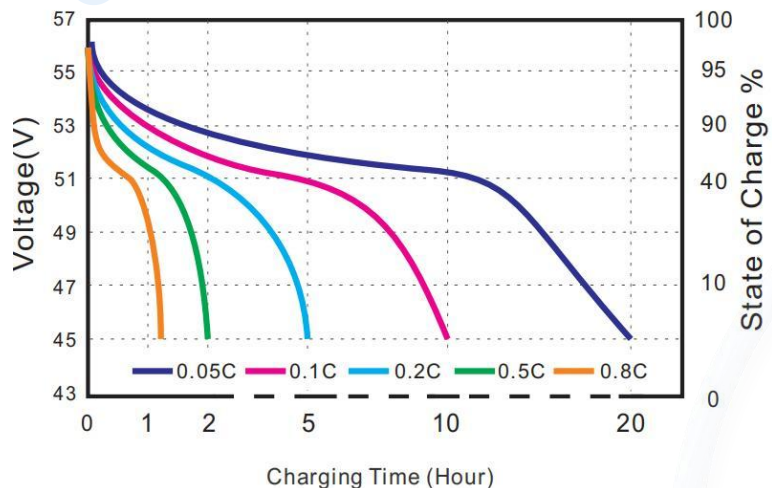
Temperature	60% DOD	80% DOD	100% DOD
25°C	8500 times	5500 times	3600 times
35°C	7500 times	5000 times	3100 times
45°C	6500 times	4500 times	2600 times

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

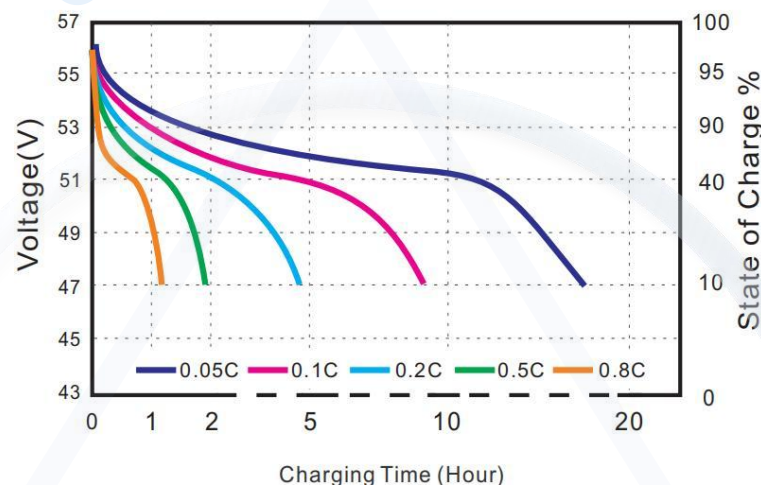
*These are not minimum values. Cell and battery designs or specifications are subject to modificatio without notice.

TH-51628-M DISCHARGE CURVES OF DIFFERENT RATE

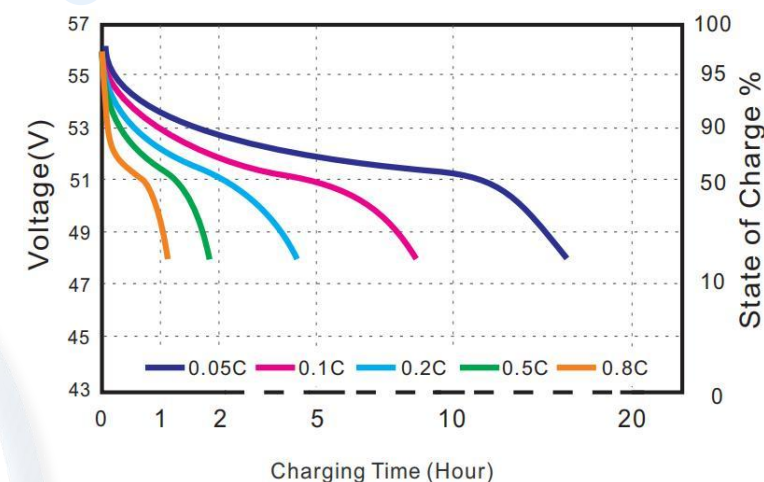
1 Discharge curves of different rate @ 95% DOD



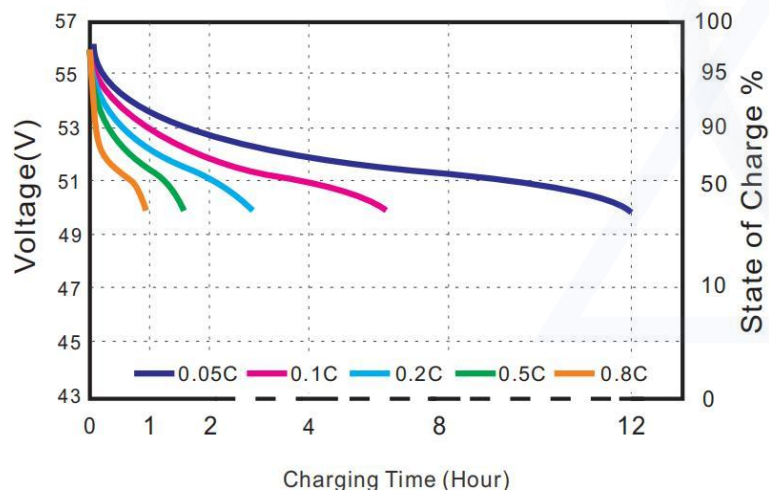
2 Discharge curves of different rate @ 90% DOD



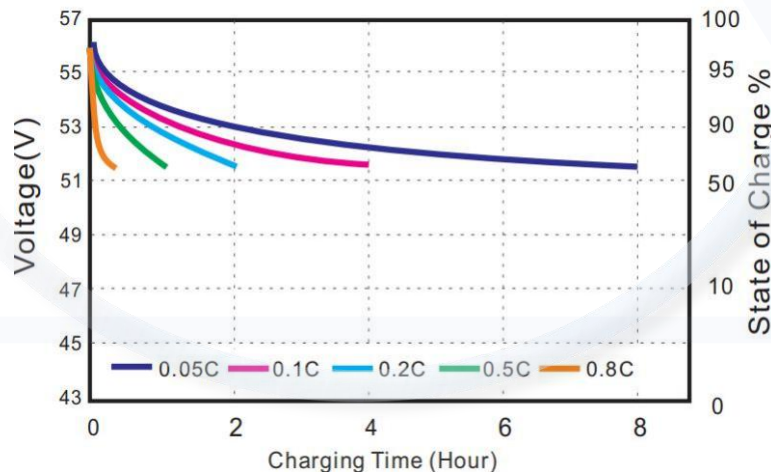
3 Discharge curves of different rate @ 80% DOD



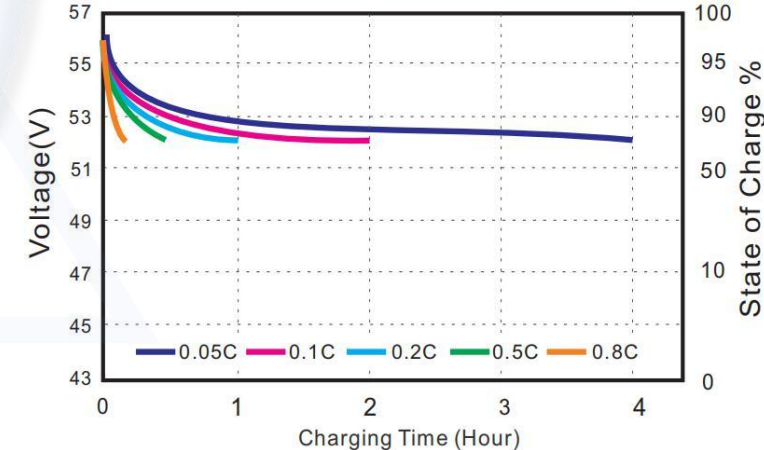
4 Discharge curves of different rate @ 60% DOD



5 Discharge curves of different rate @ 40% DOD



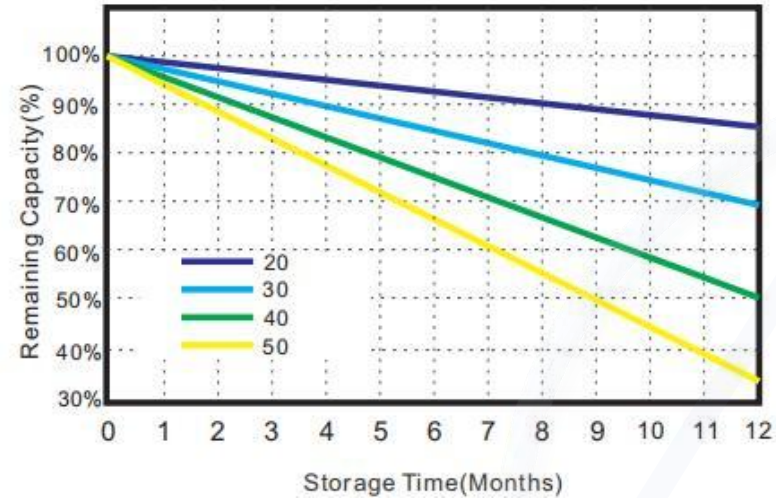
6 Discharge curves of different rate @ 20% DOD



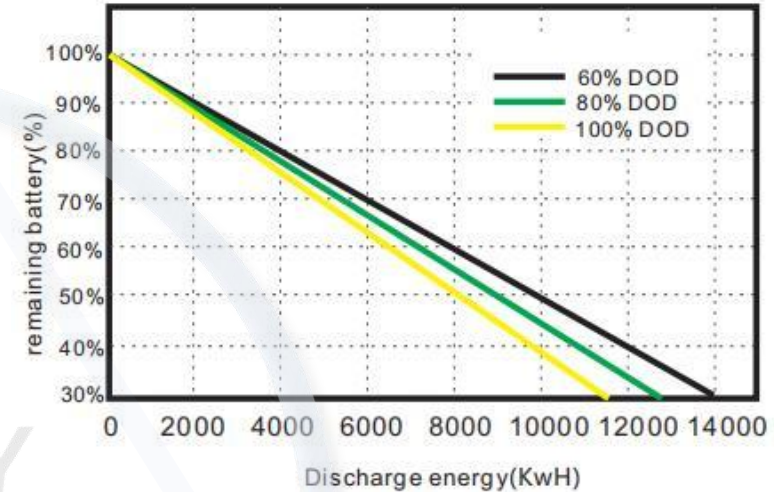
*The above datas are average values, and can be obtained within three charge/discharge cycles. *These are not minimum values. Cell and battery designs or specifications are subject to modification without notice.

TH-51628-M LABORATORY CHARACTERISTICS

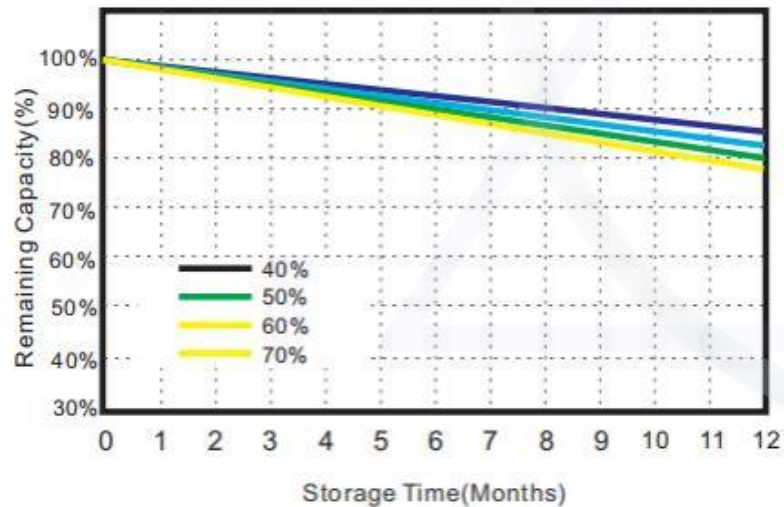
1 Different temperature self-discharge curves @ RH 50 %



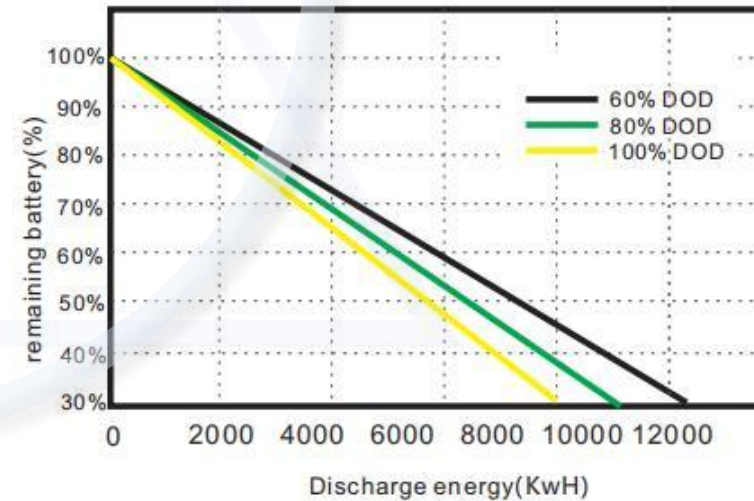
2 Different DOD total energy exchange @ 25°C/0.5C



3 Different humidity discharge curves @ 25°C



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





LET'S DEVELOP TRUST AND BUSINESS!

www.connectinglegacy.com

Legacy canadian products designed in Canada,assembled in China.