

connecting to
LEGACY[®]

LEGACY CANADIAN PRODUCTS
DESIGNED IN CANADA, ASSEMBLED IN CHINA

51.2V LITHIUM ION BATTERY STORAGE



 **LAVAL, QUEBEC, CANADA**

 www.connectinglegacy.com

1. ADVANTAGES

MAINTENCE FREE

Completely sealed, no extra maintenance during service life. Easy to use both home and in RV. Maximally save cost and effort.

LONG LIFESPAN

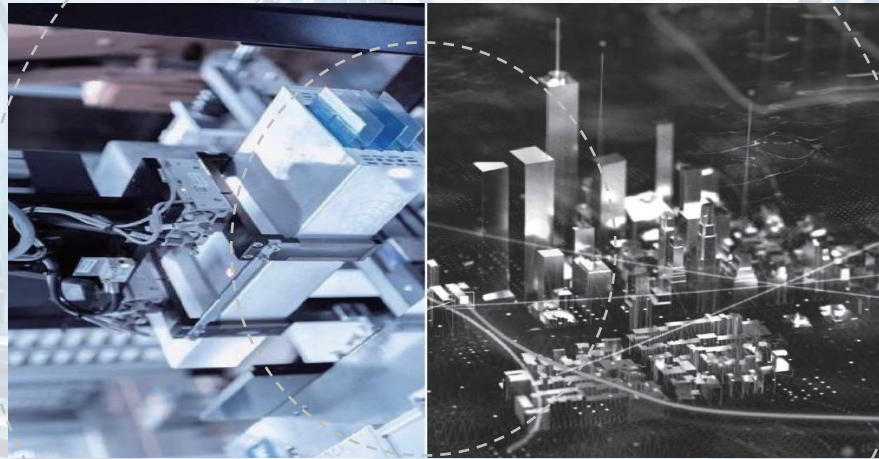
Superior service life, up to 10 years service life with proper use.

SAFE AND RELIABLE

High stability in different environment, Inherently safe chemistry coupled with the BMS and protective features at the individual cell level.

FAST CHARGE

Integrated with intelligent BMS, higher efficiency, Less operational gap.



LOW INTERNAL RESISTANCE

Less internal resistance, the current domestic internal resistance can even do below 30mQ, greatly reduces the battery power and extend the standby time.

PORTABILITY

40% lighter than lead acid battery, larger capacity of the same weight.

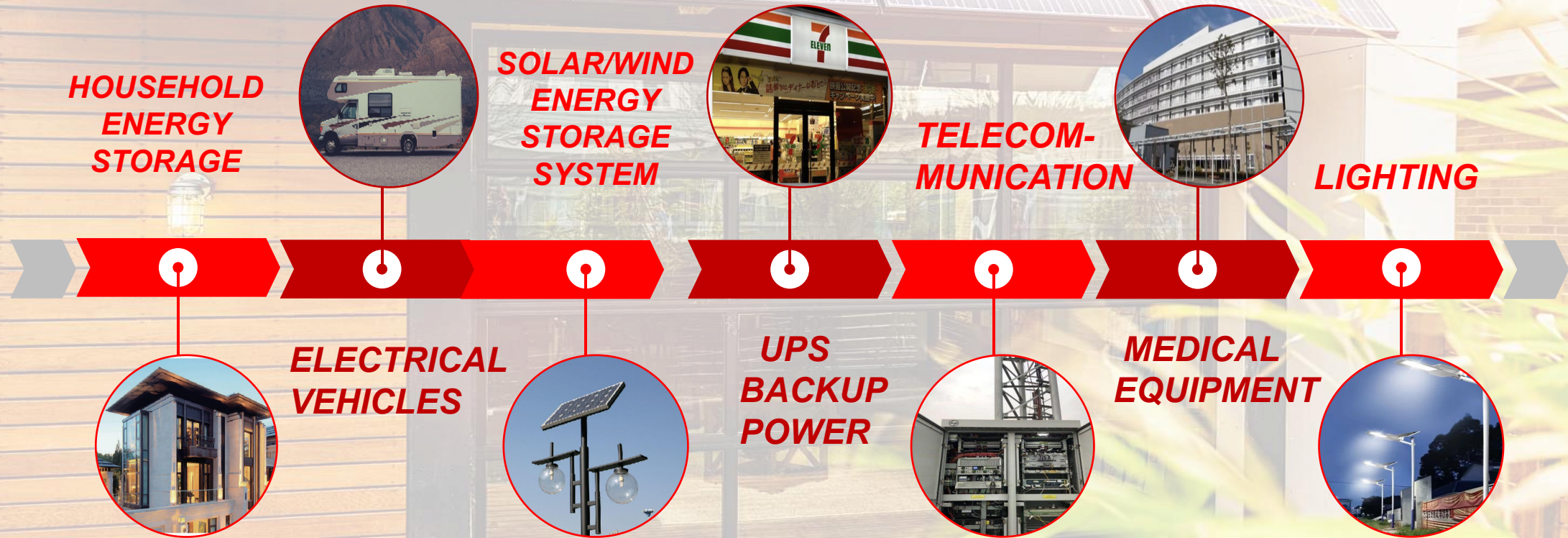
MORE POWER STORAGE

2-3 times more usable capacity than lead acid battery. Not affected by regular opertaing in a partial state of charge.

ECO-FRIENDLY

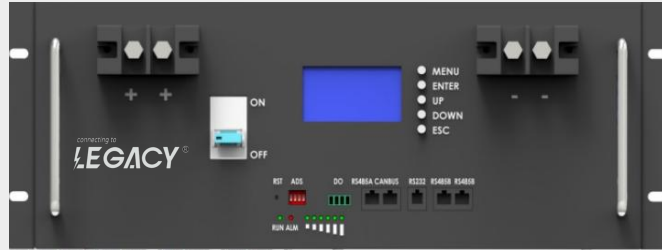
Several advantages in terms of resource consumption and safety. Help to reduce carbon emissions.

2.APPLICATIONS



3.PRODUCT IMAGE

BATTERY PACK FRONT IMAGE



BATTERY PACK SIDE IMAGE



LEGACY HIGH ENERGY STORAGE SOLUTIONS



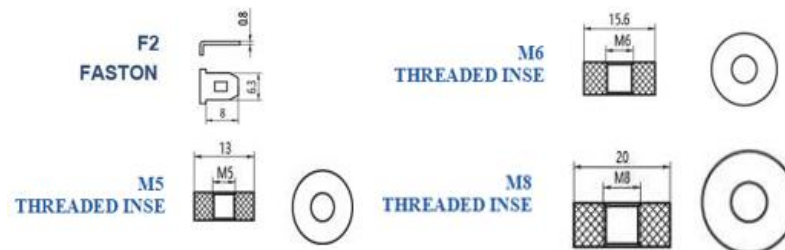
INTEGRATED SOLUTION



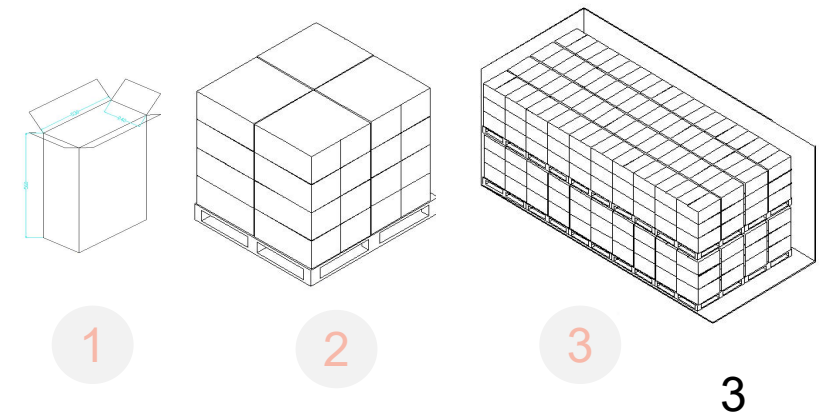
RACK MOUNTED SOLUTION



TERMINAL DETAILS



STANDARD PACKING FOR SHIPMENT



4. 51.2 VGENERAL CHARACTERISTICS

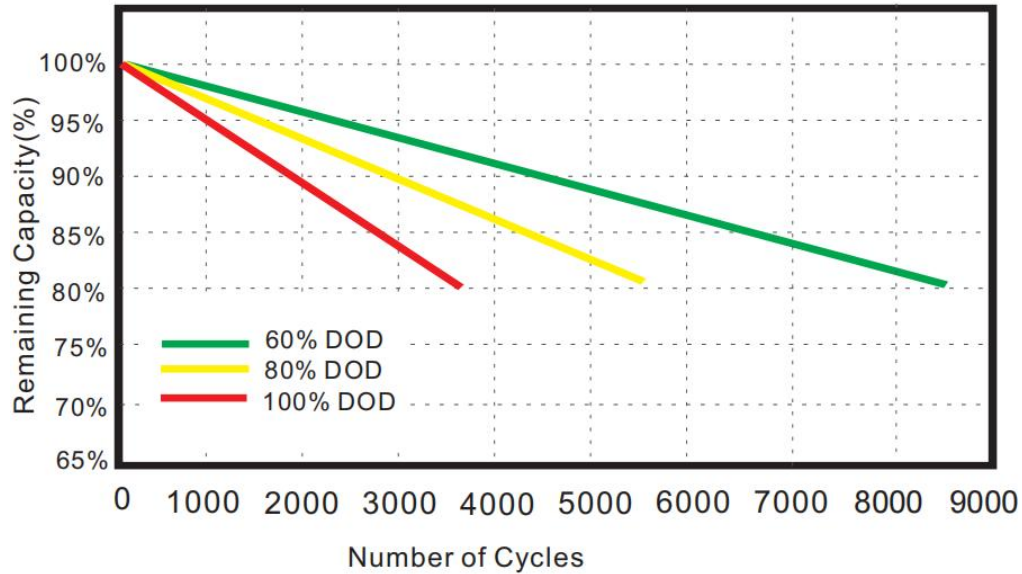
MODEL	LEGACY51.2-100	LEGACY51.2-150	LEGACY51.2-200
DIMENSION(MM)	483*460*178	483*620*178	483*680*178
NET WEIGHT(KG)	48	76	92
NOMINAL CAPACITY(AH)	100	150	200
ENERGY(WH)	51200	7680	10240
NOMINAL VOLTAGE	51.2V		
INTERNAL RESISTANCE	≤30MΩ		
CYCLE LIFE	80% DOD,@25°C, 0.5°C ≥5500 80% DOD,@45°C, 0.5°C ≥4500		
DESIGN LIFE	≥15 Years		
MONTH SELF DISCHARGE	≤2 % SOC @35°C		
EFFICIENCY OF CHARGE	≥98%		
EFFICIENCY OF DISCHARGE	≥100% @0.2C; ≥96% @ 1C		
CASE	Iron (Insulation painting)		
GRAVIMETRIC SPECIFIC ENERGY	105Wh/kg		
PROTOCOL (OPTIONAL)	PC-RS232/ RS485(B); Inverter-RS485(A)/CANBUS		
INTELLIGENT BMS	Detection of over charge/discharger, overcurrent or short cuit with temperture protection		

51.2V GENERAL CHARACTERISTICS

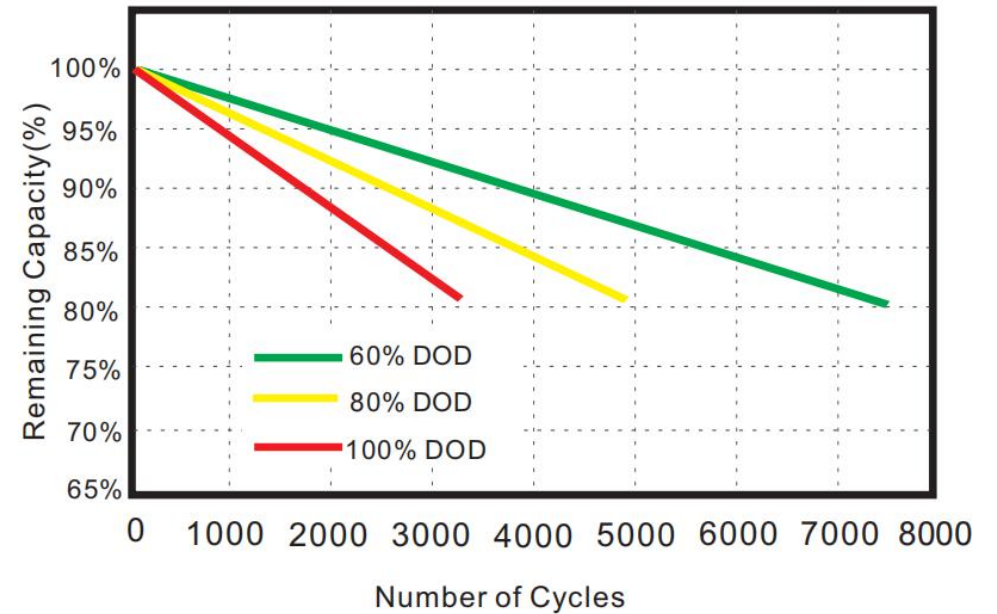
MODEL	LEGACY51.2-100	LEGACY51.2-150	LEGACY51.2-200
CHARGE CUT-OFF VOLTAGE	54.0V±0.1V; 54V±0.2V (Floating charge voltage)		
DISCHARGE CUT-OFF VOLTAGE	45V±0.2V		
CHARGE MODE	1C to 54.0V, then 54.0V charge current to 0.02C (CC/CV)		
CHARGE CURRENT	100A		
MAX. CHARGE CURRENT	130A		
CONTINUOUS CURRENT	100A		
MAX. CONTINUOUS DISCHARGE CURRENT	130A		
CHARGE TEMPERATURE	0°C~60°C (Under 0°C extra heating mechanism)		
DISCHARGE TEMPERATURE	-20°C~60°C (Under 0°C work with reduced capacity)		
STORAGE TEMPERATURE	-40°C~55°C @ 60%±25% (Relative humidity)		
LIMIT CHARGE CURRENT	No		
WATER DUST RESISTANCE	Ip21 (The battery cabinet supports Ip55)		
CASE	Insulation painting Iron		
SOC LIGHT	6 * LED		
DISPLAY SCREEN	LCD (Optional)		

5. 51.2V PRODUCTION DISCHARGE DEPTH LIFE CYCLE CURVES

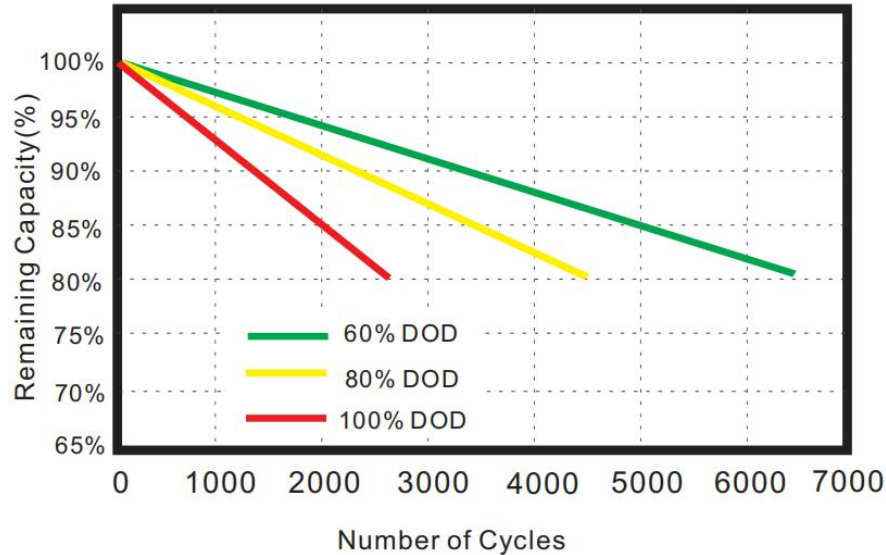
1. DIFFERENT DISCHARGE DEPTH LIFE CYCLE @25°C



2. DIFFERENT DISCHARGE DEPTH LIFE CYCLE @35°C



3. DIFFERENT DISCHARGE DEPTH LIFE CYCLE @45°C

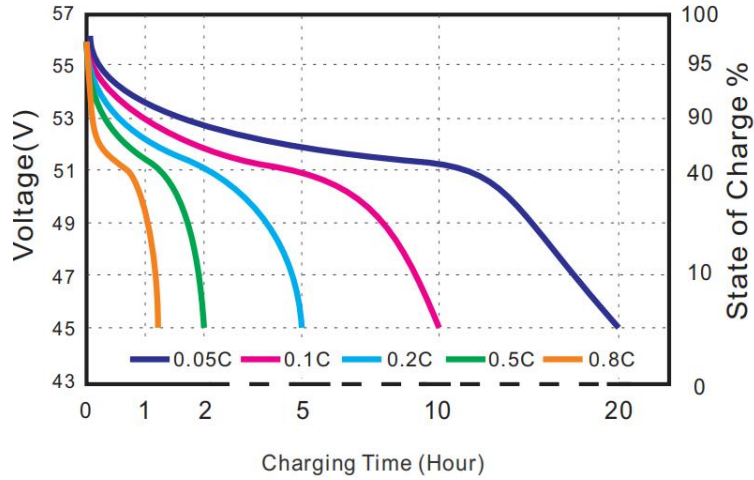


DESIGN WORKING LIFE: 15 YERAS			
TEMPERAUTE	60%DOD	80%DOD	100%DOD
25°C	8500	5500	3600
35°C	7500	5000	3100
45°C	6500	4500	2600

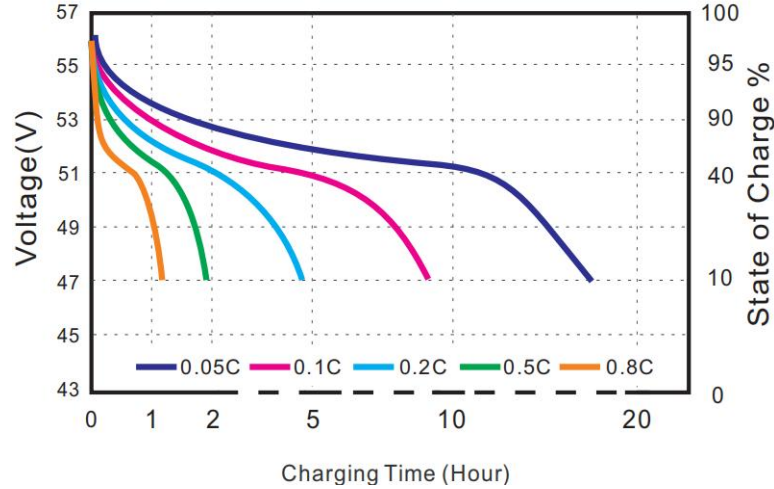
*The above datas are average values, and can be obtained within three charge/ discharge cycles.
*These are not minimum values. Cell and battery designs or specifications are subject to modification without notice.

6. 51.2V PRODUCTION DIFFERENT CURRENT DISCHARGE CURVES

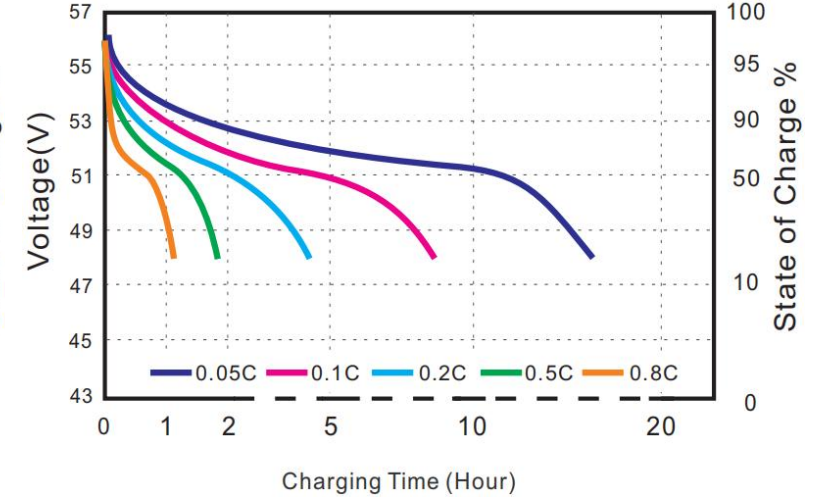
1. DIFFERENT RATE DISCHARGE CURVES@95% DOD



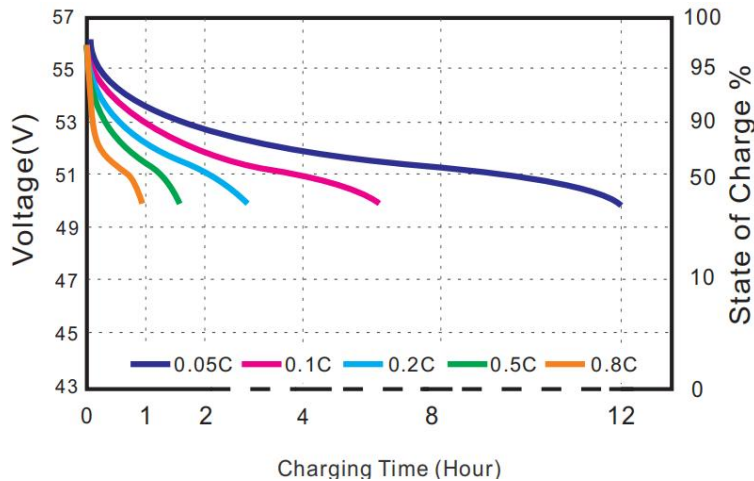
2. DIFFERENT RATE DISCHARGE CURVES@90% DOD



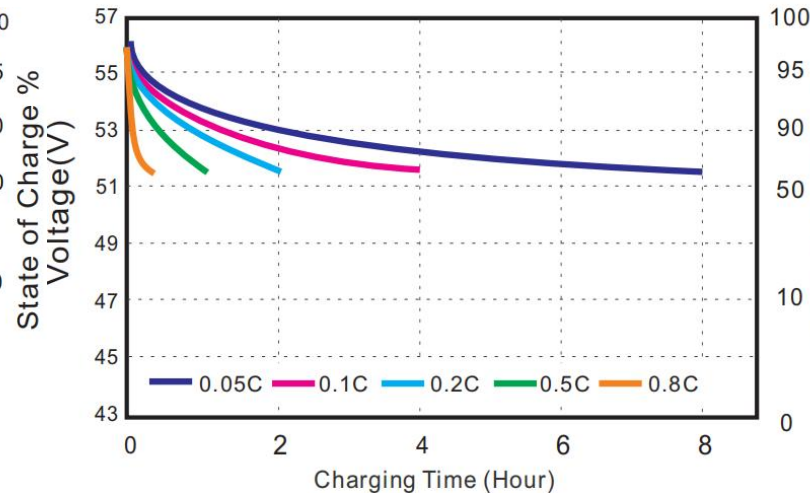
3. DIFFERENT RATE DISCHARGE CURVES@80% DOD



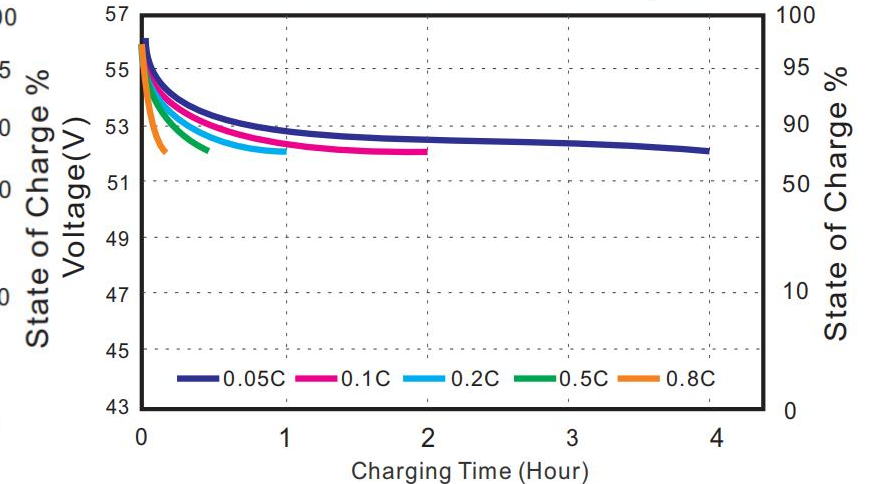
4. DIFFERENT RATE DISCHARGE CURVES@60% DOD



5. DIFFERENT RATE DISCHARGE CURVES@40% DOD



6. DIFFERENT RATE DISCHARGE CURVES@20% DOD

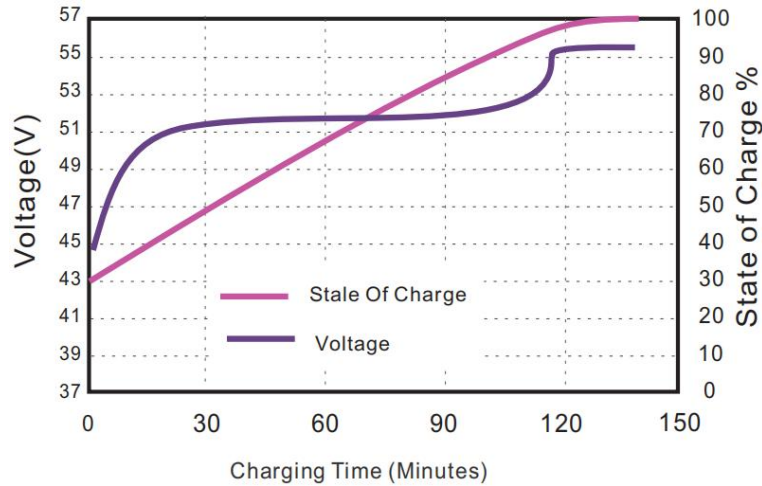


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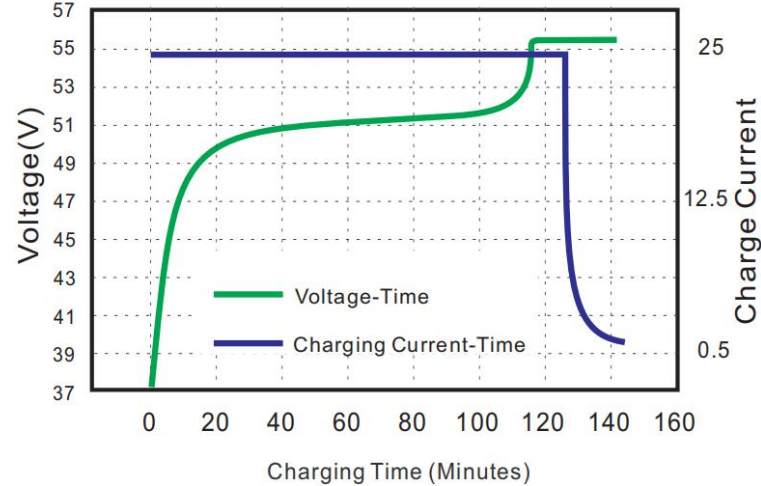
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7. 51.2V100AH CHARGING AND DISCHARGING CURVES

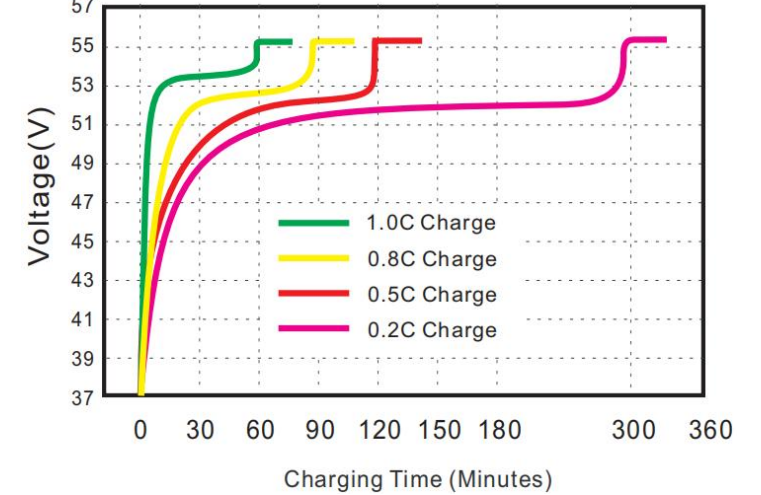
1. STATE OF CHARGE CURVE @25°C 0.5°C



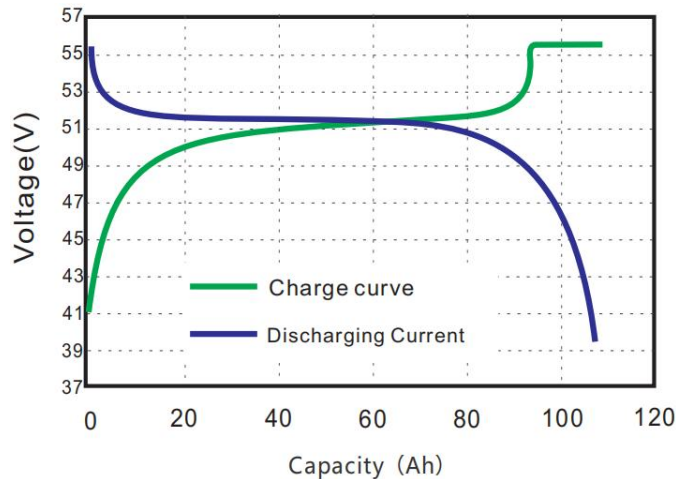
2. CHARGING CHARACTERISTICS @0.5°C 25°C



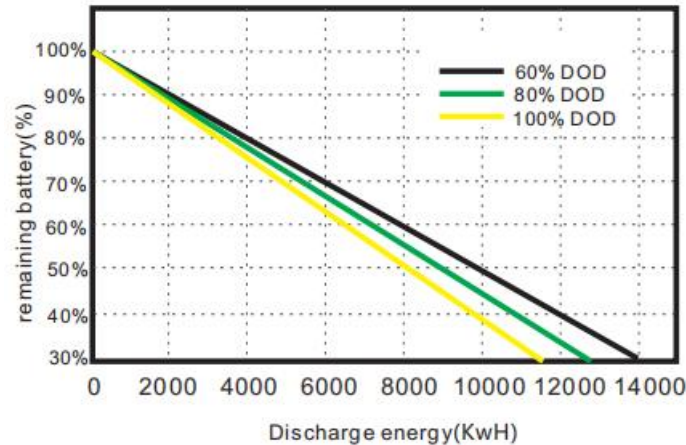
3. DIFFERENT CURRENT CHARGING @25°C



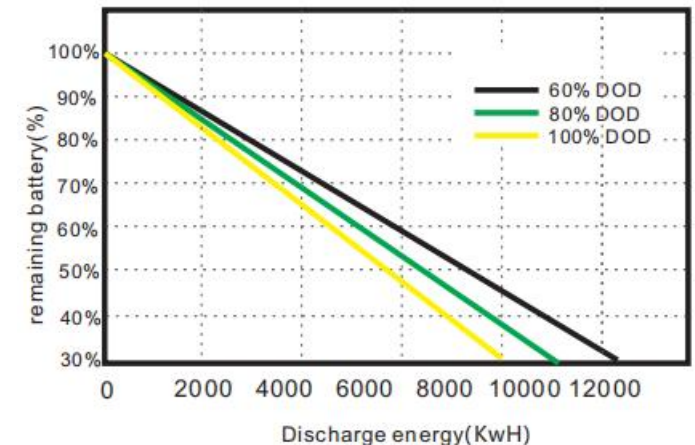
4. CHARGING AND DISCHARGING CURVE @0.5°C 25°C



5. DIFFERENT DOD TOTAL ENERGY EXCHANGE @25°C 0.5°C



6. DIFFERENT DOD TOTAL ENERGY EXCHANGE @40°C 0.5°C

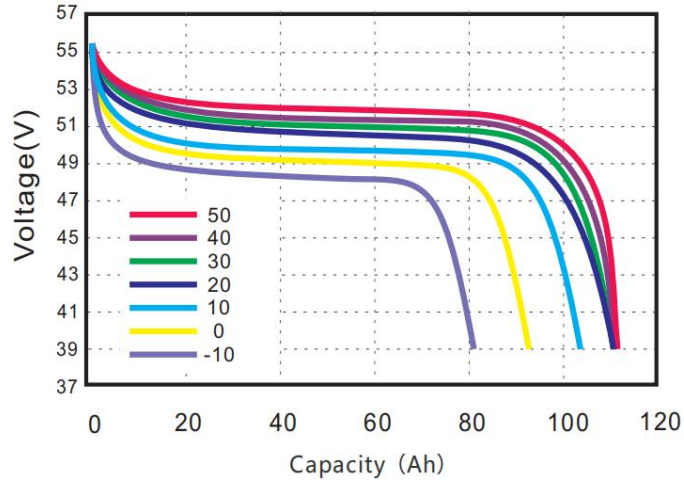


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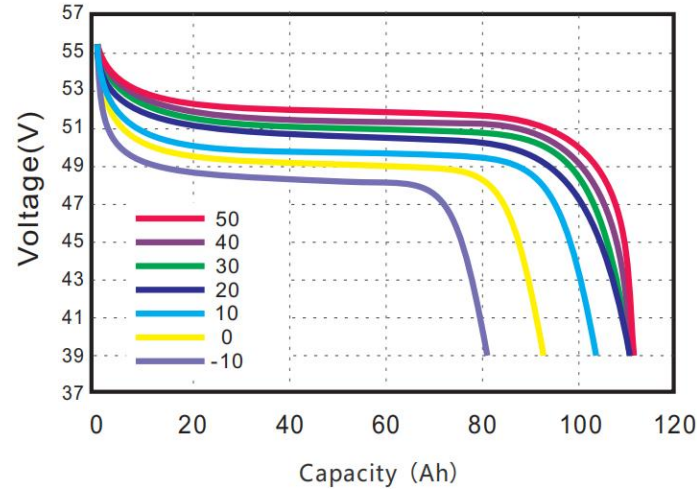
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8. 51.2V100AH DIFFERENT DISCHARGE CURVES

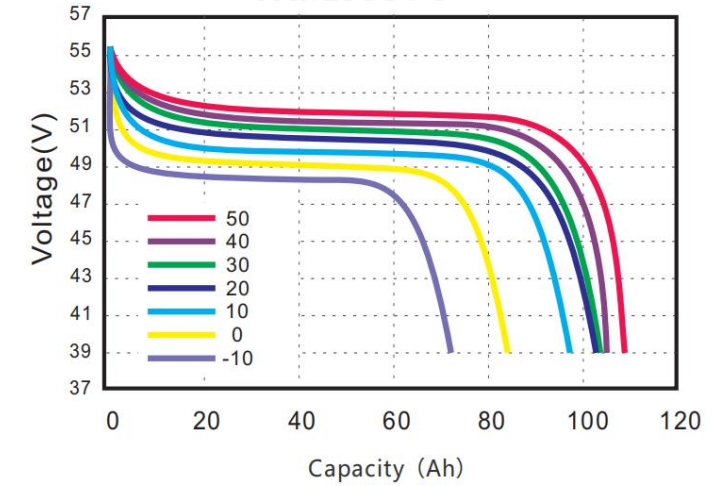
1. DIFFERENT TEMPERATURE DISCHARGE CURVES@0.2°C



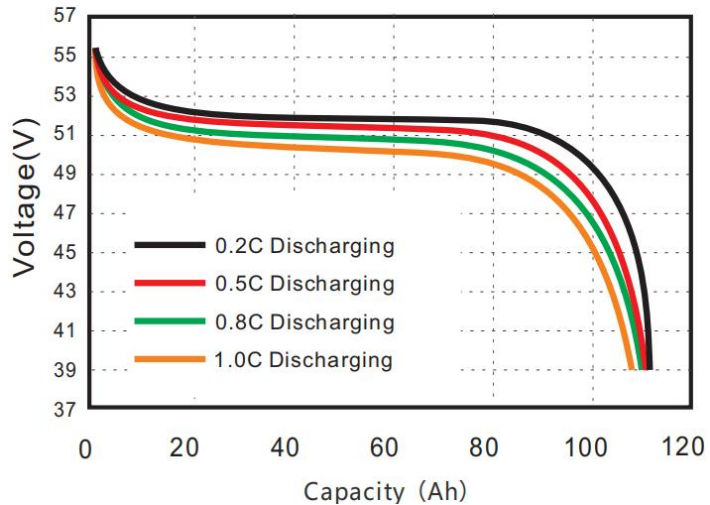
2. DIFFERENT TEMPERATURE DISCHARGE CURVES@0.5°C



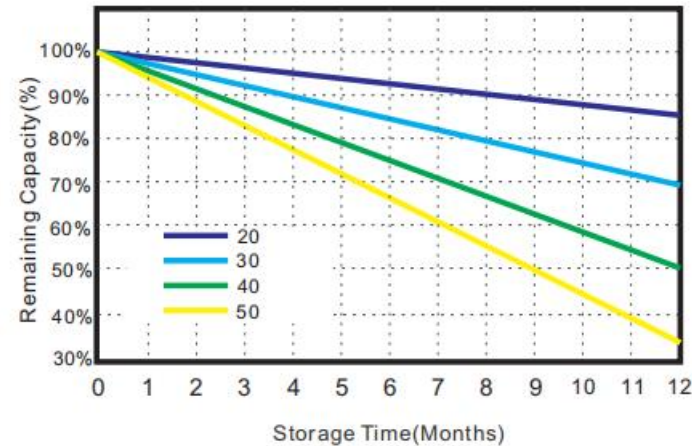
3. DIFFERENT TEMPERATURE DISCHARGE CURVES@1.0°C



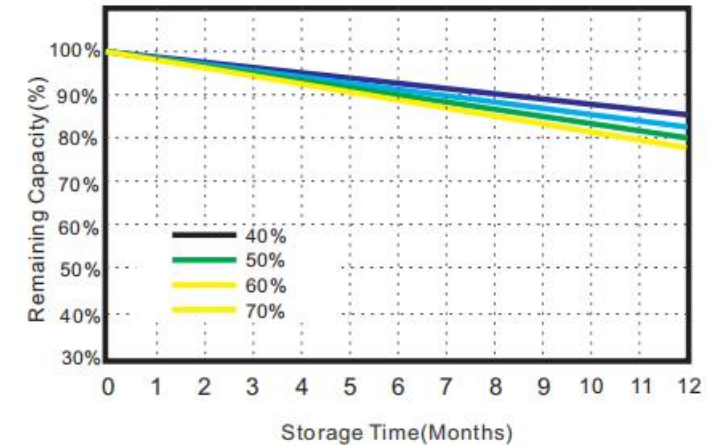
4. DIFFERENT RATE DISCHARGE CURVES@25°C



5. DIFFERENT TEMPERATURE SELF-DISCHARGE CURVES@RH 50%



6. DIFFERENT HUMIDITY DISCHARGE CURVES@25°C



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9. 51.2V100AH HIGH ENERGY STORAGE SOLUTIONS



51.2V 100AH



MODEL	LEGACY-BOX 51.2-300	LEGACY-BOX 51.2-400	LEGACY-BOX 51.2-500	LEGACY-BOX 51.2-600	LEGACY-BOX 51.2-700	LEGACY-BOX 51.2-800
DIMENSION(MM)	600*600*988	600*600*1166	600*600*1388	600*600*1610	600*600*1833	600*600*2055
NET WEIGHT(KG)	175	240	300	360	430	480
CAPACITY(AH)	300	400	500	600	700	800
ENERGY(W)	15360	20480	25600	30720	35840	40960
NOMINAL VOLTAGE	51.2V					
CHARGE CUT-OFF VOLTAGE	56.0V±0.5V(16S)					
DISCHARGE CUT-OFF VOLTAGE	48V±1.0V(16S)					
MAX CONTINUOUS WORK CURRENT(A)	200	300	400	400	400	400

10.51.2V200AH HIGH ENERGY STORAGE SOLUTIONS



51.2V 200AH



MODEL	LEGACY-BOX 51.2-600	LEGACY-BOX 51.2-800	LEGACY-BOX 51.2-1000	LEGACY-BOX 51.2-1200	LEGACY-BOX 51.2-1400	LEGACY-BOX 51.2-1600
DIMENSION(MM)	600*600*988	600*600*1166	600*600*1388	600*600*1610	600*600*1833	600*600*2055
NET WEIGHT+CASE (KG)	370	485	600	715	800	940
CAPACITY(AH)	600	800	1000	1200	1400	1600
ENERGY(W)	30720	40960	51200	61440	71680	81920
NOMINAL VOLTAGE	51.2V					
CHARGE CUT-OFF VOLTAGE	56V± 0.5V(15S)					
DISCHARGE CUT-OFF VOLTAGE	48V± 1.0V(15S)					
MAX CONTINUOUS WORK CURRENT(A)	200	300	400	400	400	400

10. ACHIEVEMENT

COMPATIBLE & HIGH PERFORMANCE WITH BELOW INVERTERS:



*Legacy battery pack provides 3 years warranty.
Legacy battery pack is produced by high specification of production and tested one-by-one strictly before package.*

*Legacy Battery Storage can be programmed to work with specified inverter and customized to your exclusive requestments.
Welcome to contact us for back to back order.*

COMPLIED CERTIFICATIONS:



LET'S DEVELOP TRUST AND BUSINESS

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