

connecting to
LEGACY[®]

LEGACY CANADIAN PRODUCTS
DESIGNED IN CANADA, ASSEMBLED IN CHINA

48V 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

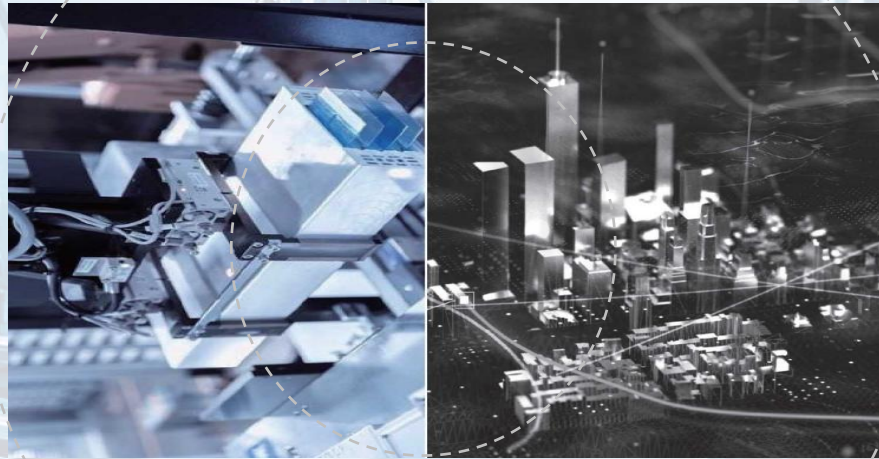
Superior service life, up to 10 years service life with proper use.

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.

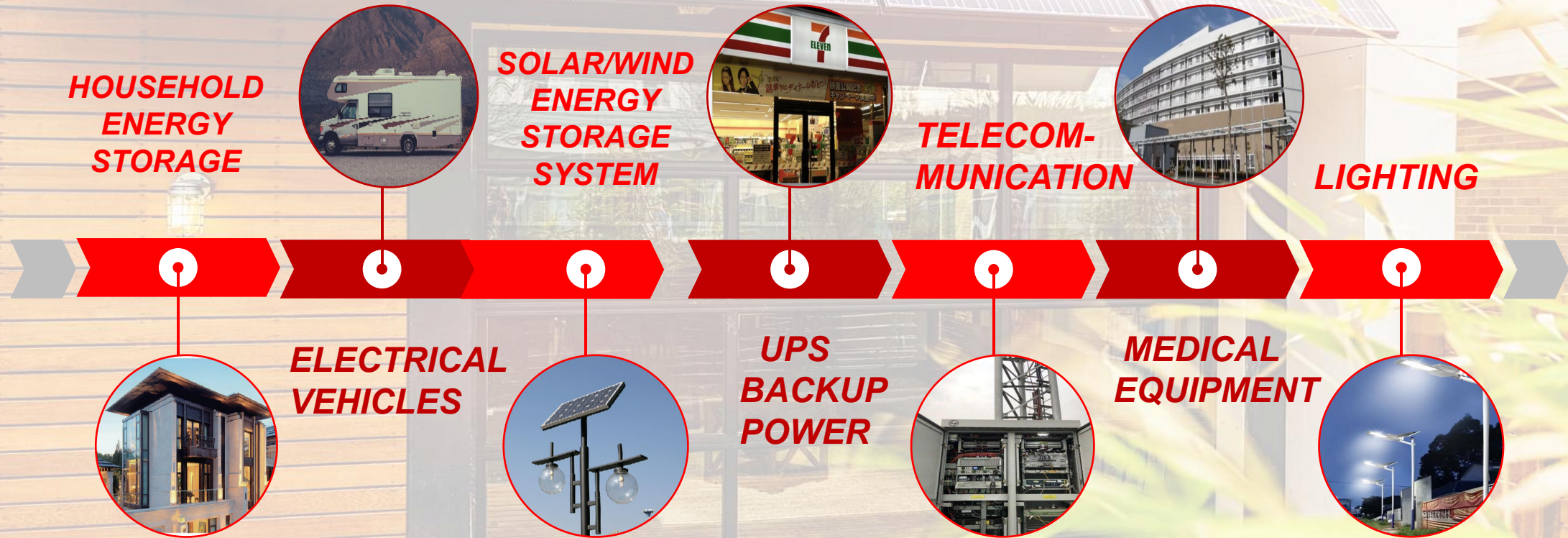
MORE POWER STORAGE

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

ECO-FRIENDLY

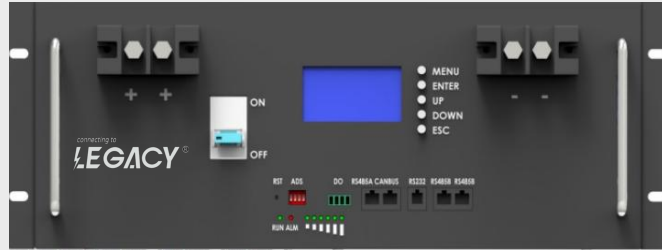
Several advantages in terms of resource consumption and safety. Help to reduce carbon emissions.

2.APPLICATIONS



3.PRODUCT IMAGE

BATTERY PACK FRONT IMAGE



BATTERY PACK SIDE IMAGE



LEGACY HIGH ENERGY STORAGE SOLUTIONS



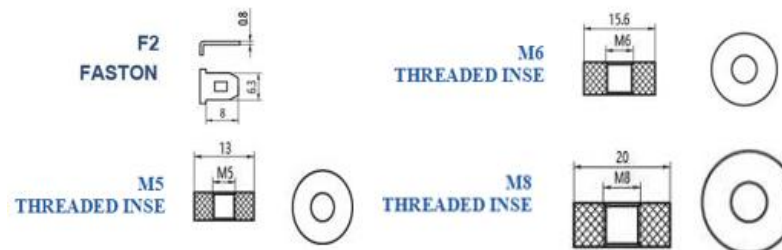
INTEGRATED SOLUTION



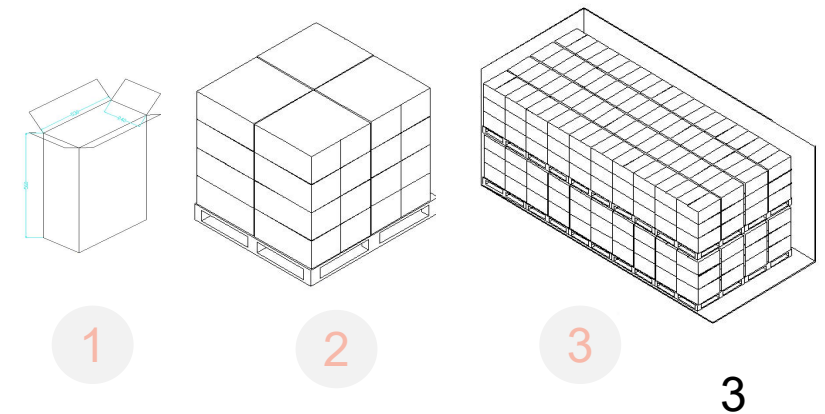
RACK MOUNTED SOLUTION



TERMINAL DETAILS



STANDARD PACKING FOR SHIPMENT



4. 48V PRODUCTION GENERAL CHARACTERISTICS

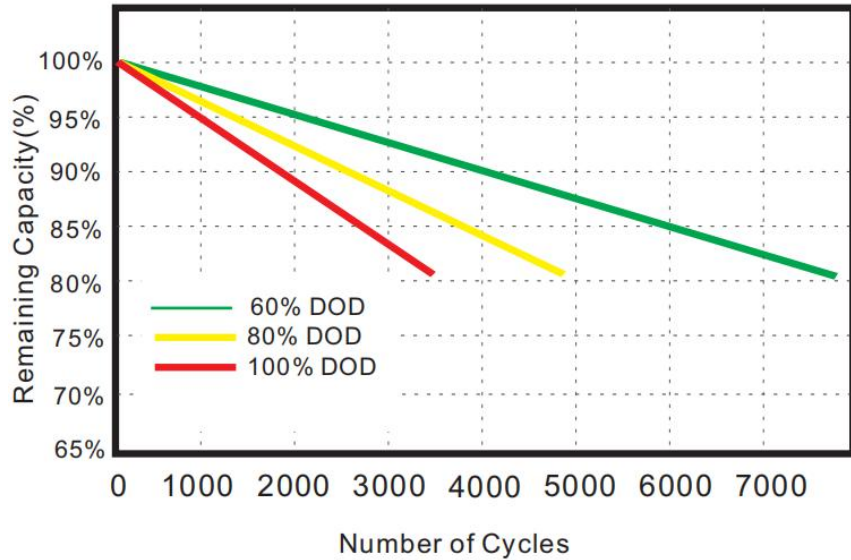
MODEL	LEGACY48100	LEGACY48150	LEGACY48200
DIMENSION(MM)	483*460*178	483*620*178	483*680*178
NET WEIGHT(KG)	45	72	86
NOMINAL CAPACITY(AH)	100	150	200
ENERGY(WH)	4800	7200	9600
NOMINAL VOLTAGE	48V		
INTERNAL RESISTANCE	≤60MΩ		
CYCLE LIFE	80% DOD,@25°C, 0.5°C ≥5000 80% DOD,@45°C, 0.5°C ≥4000		
DESIGN LIFE	≥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		

48V GENERAL CHARACTERISTICS

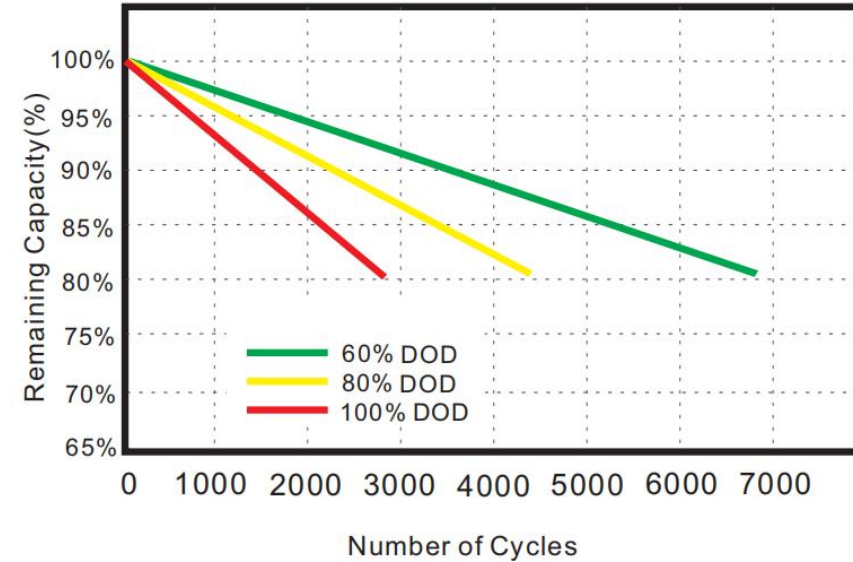
MODEL	LEGACY48100	LEGACY48150	LEGACY48200
CHARGE CUT-OFF VOLTAGE	54.0V±0.1V; 54V±0.2V (Floating charge voltage)		
DISCHARGE CUT-OFF VOLTAGE	42V±0.2V		
CHARGE MODE	1C to 54.0V, then 54.0V charge current to 0.02C (CC/CV)		
CHARGE CURRENT	100A		
MAX. CHARGE CURRENT	130A		
CONTINUOUS CURRENT	100A		
MAX. 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. 48V PRODUCTION DISCHARGE DEPTH LIFE CYCLE CURVES

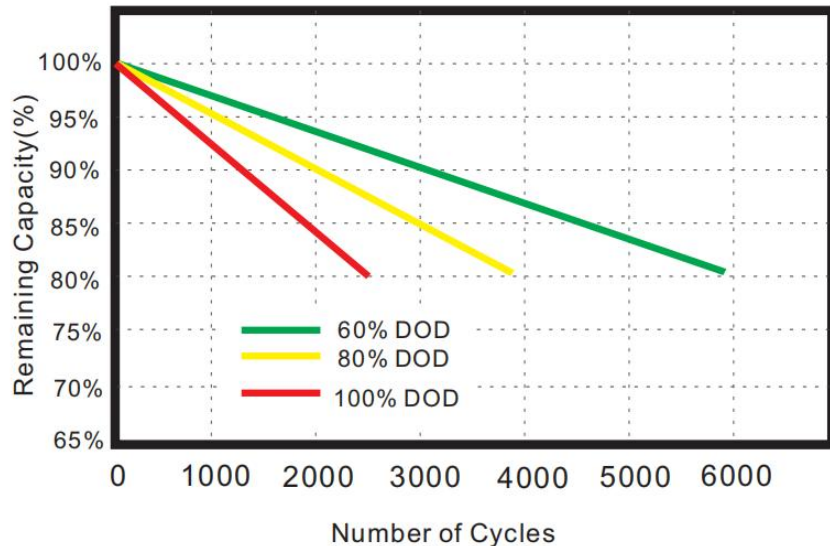
1. DIFFERENT DISCHARGE DEPTH LIFE CYCLE @25°C



2. DIFFERENT DISCHARGE DEPTH LIFE CYCLE @35°C



3. DIFFERENT DISCHARGE DEPTH LIFE CYCLE @45°C

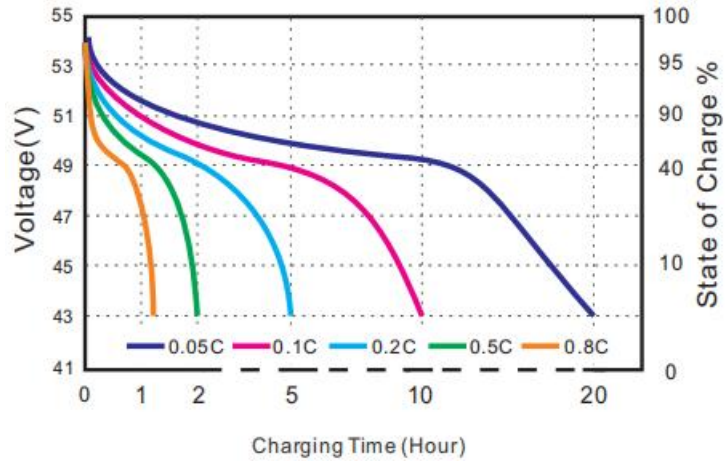


DESIGN WORKING LIFE: 15 YERAS			
TEMPERAUTE	60%DOD	80%DOD	100%DOD
25°C	8000	5000	3200
35°C	6950	4500	2800
45°C	6000	4000	2500

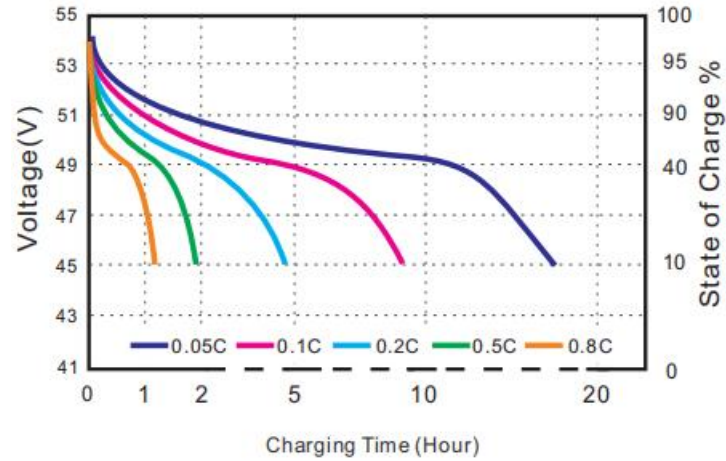
**The above datas are average values, and can be obtained within three charge/ discharge cycles.
These are not minimum values. Cell and battery designs or specifications are subject to modification without notice.

6. 48V PRODUCTION DIFFERENT CURRENT DISCHARGE CURVES

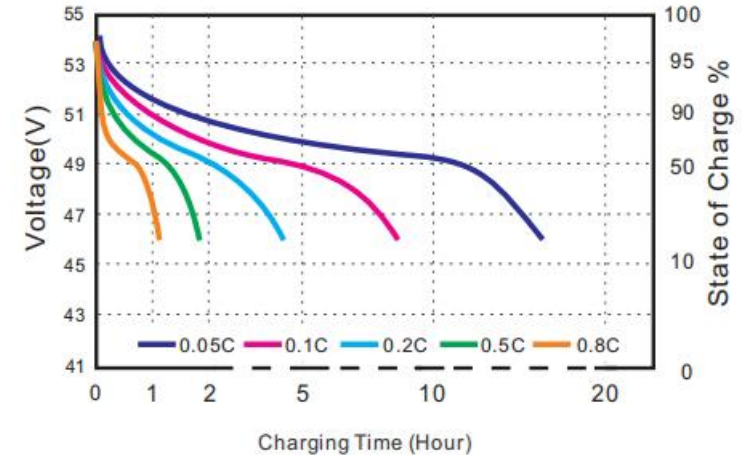
1. DIFFERENT RATE DISCHARGE CURVES@95% DOD



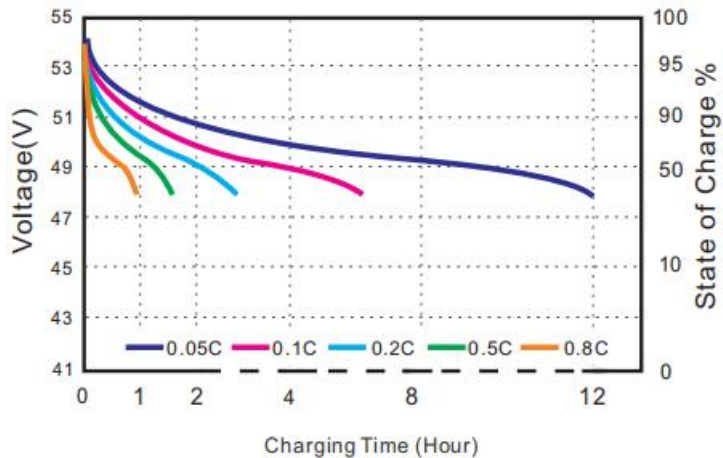
2. DIFFERENT RATE DISCHARGE CURVES@90% DOD



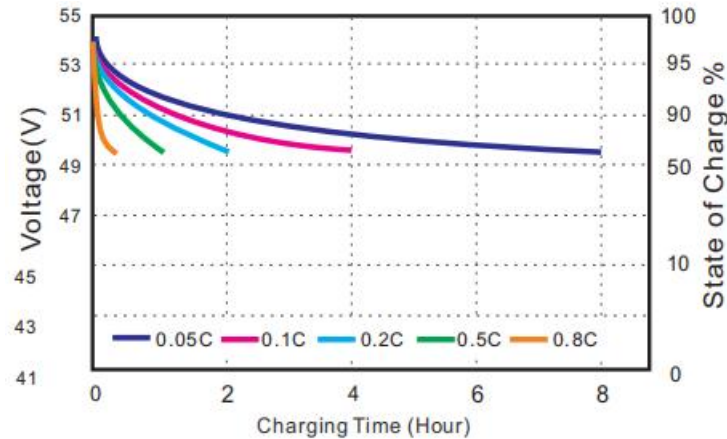
3. DIFFERENT RATE DISCHARGE CURVES@80% DOD



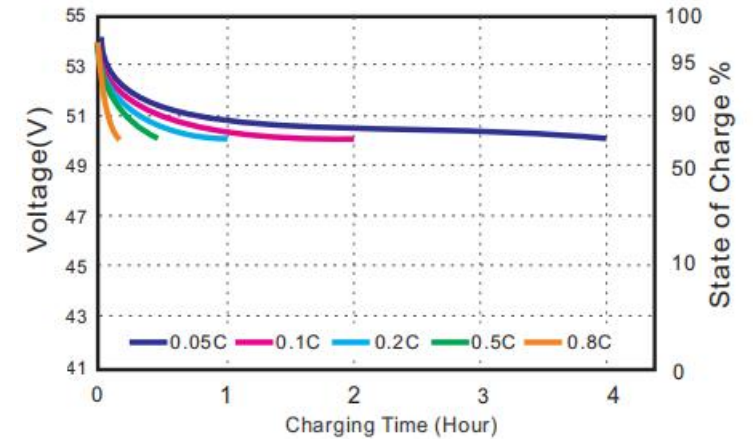
4. DIFFERENT RATE DISCHARGE CURVES@60% DOD



5. DIFFERENT RATE DISCHARGE CURVES@40% DOD



6. DIFFERENT RATE DISCHARGE CURVES@20% DOD

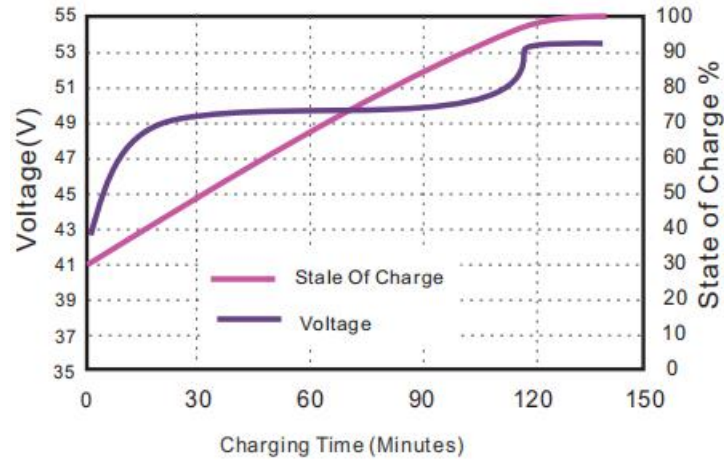


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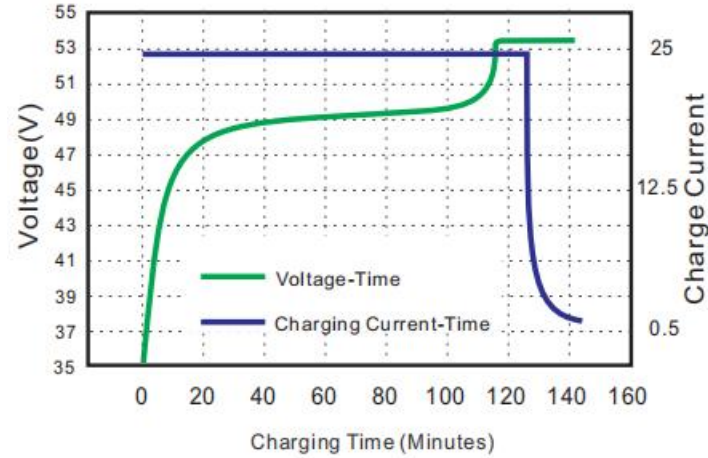
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7. 48V100AH CHARGING AND DISCHARGING CURVES

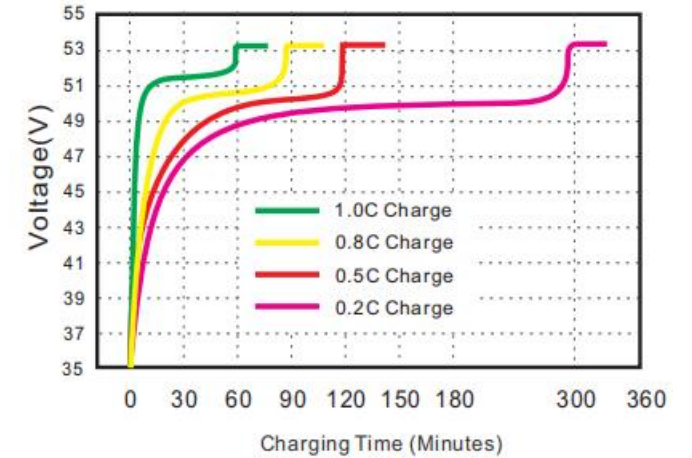
1. STATE OF CHARGE CURVE @25°C 0.5°C



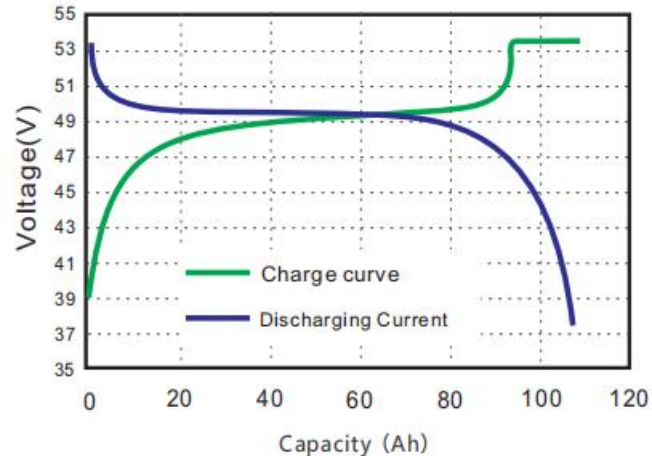
2. CHARGING CHARACTERISTICS @0.5°C 25°C



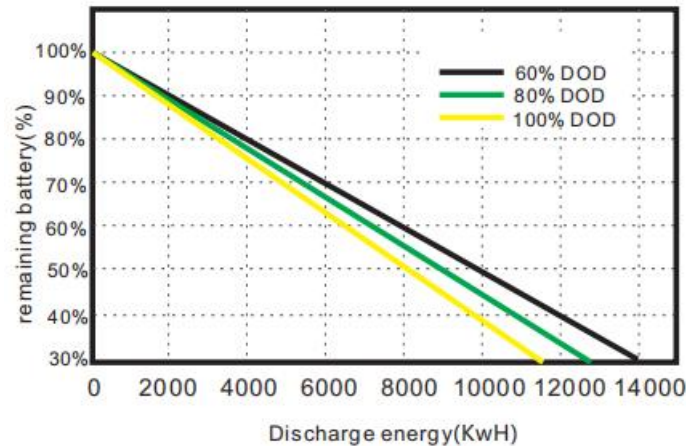
3. DIFFERENT CURRENT CHARGING @25°C



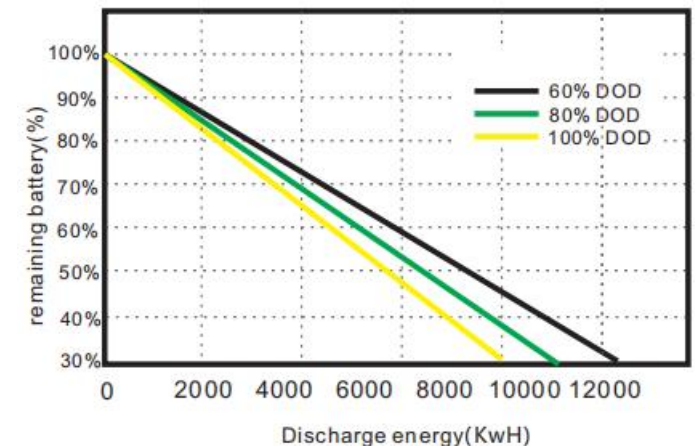
4. CHARGING AND DISCHARGING CURVE @0.5°C 25°C



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



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

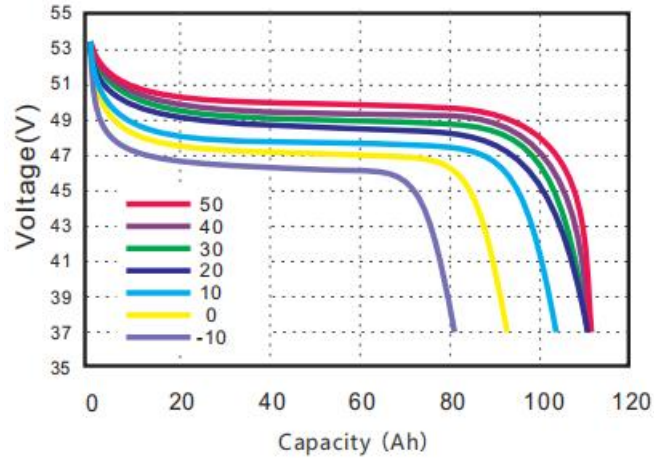


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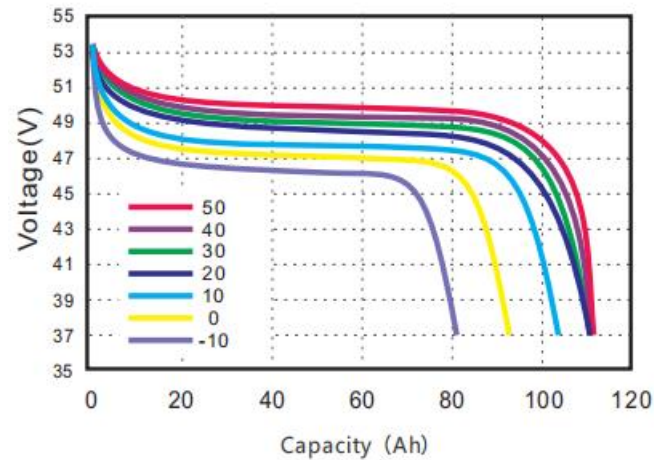
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8. 48V100AH DIFFERENT DISCHARGE CURVES

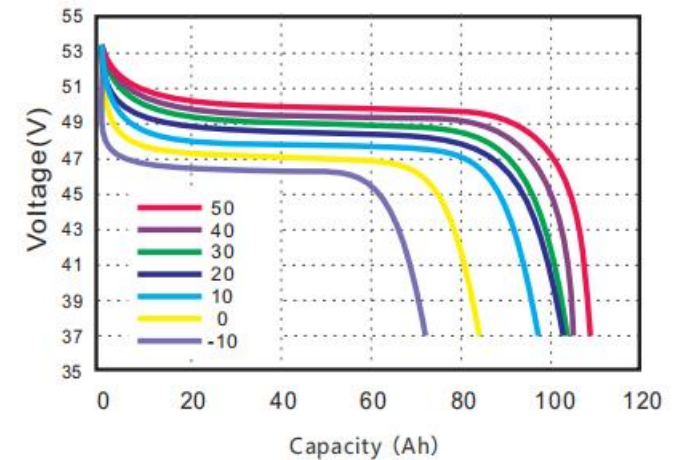
1. DIFFERENT TEMPERATURE DISCHARGE CURVES@0.2°C



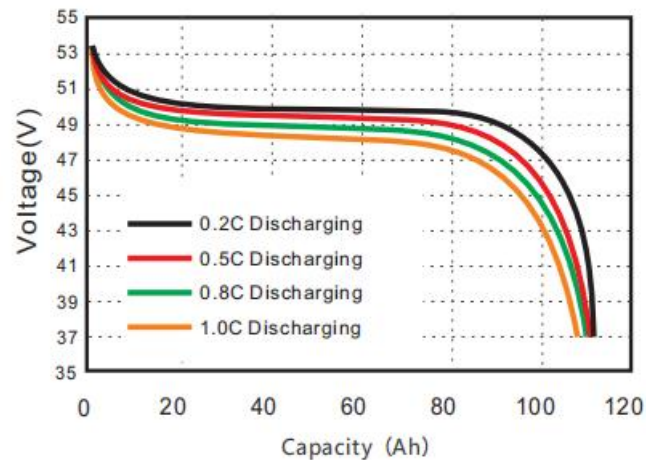
2. DIFFERENT TEMPERATURE DISCHARGE CURVES@0.5°C



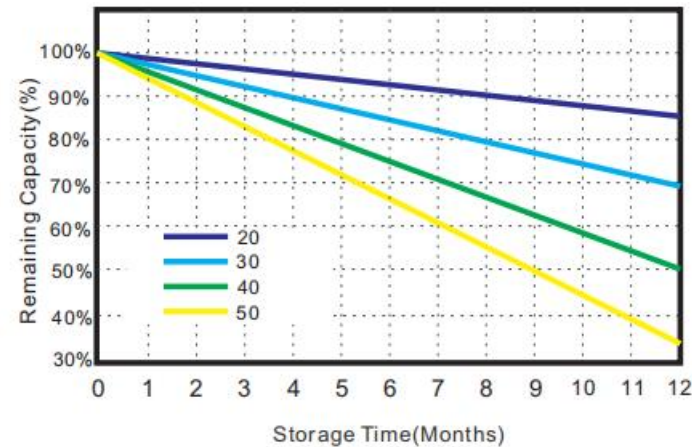
3. DIFFERENT TEMPERATURE DISCHARGE CURVES@1.0°C



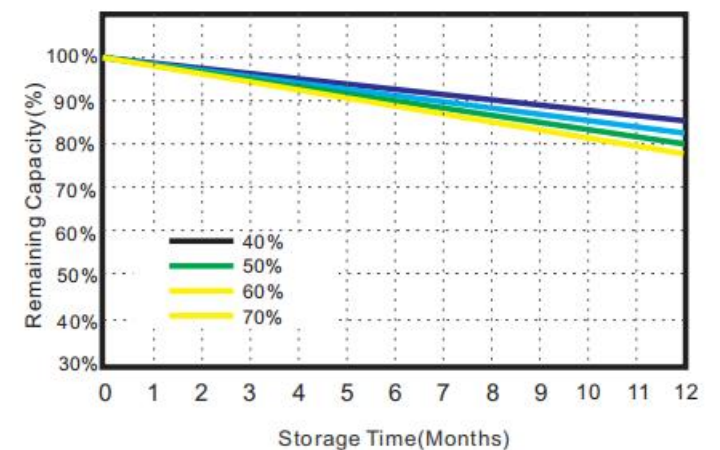
4. DIFFERENT RATE DISCHARGE CURVES@25°C



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



6. DIFFERENT HUMIDITY DISCHARGE CURVES@25°C



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9.48V100AH HIGH ENERGY STORAGE SOLUTIONS



48V 100AH



MODEL	LEGACY-BOX 48300	LEGACY-BOX 48400	LEGACY-BOX 48500	LEGACY-BOX 48600	LEGACY-BOX 48700	LEGACY-BOX 48800
DIMENSION(MM)	600*600*988	600*600*1166	600*600*1388	600*600*1610	600*600*1833	600*600*2055
NET WEIGHT+CASE (KG)	165	230	285	340	400	455
CAPACITY(AH)	300	400	500	600	700	800
ENERGY(W)	14400	19200	24000	28800	33600	38400
NOMINAL VOLTAGE	48V					
CHARGE CUT-OFF VOLTAGE	53V±0.5V(15S)					
DISCHARGE CUT-OFF VOLTAGE	45V±1.0V(15S)					
MAX CONTINUOUS WORK CURRENT(A)	200	300	400	400	400	400

10.48V200AH HIGH ENERGY STORAGE SOLUTIONS



48V 200AH



MODEL	LEGACY-BOX 48600	LEGACY-BOX 48800	LEGACY-BOX 481000	LEGACY-BOX 481200	LEGACY-BOX 481400	LEGACY-BOX 481600
DIMENSION(MM)	600*600*988	600*600*1166	600*600*1388	600*600*1610	600*600*1833	600*600*2055
NET WEIGHT+CASE(KG)	350	460	570	680	780	900
CAPACITY(AH)	600	800	1000	1200	1400	1600
ENERGY(WH)	28800	38400	48000	57600	67200	76800
NOMINAL VOLTAGE	48V					
CHARGE CUT-OFF VOLTAGE	53V± 0.5V(15S)					
DISCHARGE CUT-OFF VOLTAGE	45V± 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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