



Hong Kong Batteries Manufactory Limited 香港電池工業有限公司

LiFePO4 HEV Battery (磷酸铁锂动力锂离子电池)

Lithium Iron Magnesium LiFePO4 HEV Battery (磷酸铁锂动力锂离子电池) Modules.

- High Energy, Power Density, Safety, Core Technology designed is combined.
- Intrinsic Graphite safety to protect against abusive situations.
- Environmentally friendly, No heavy metals disposal issues, with No memory effect.
- Low lifetime Costs due to low maintenances & high cycle life.
- Easy Installation and HkbiL is fully support for MBU, system, After-service



Battery Pack Modules:

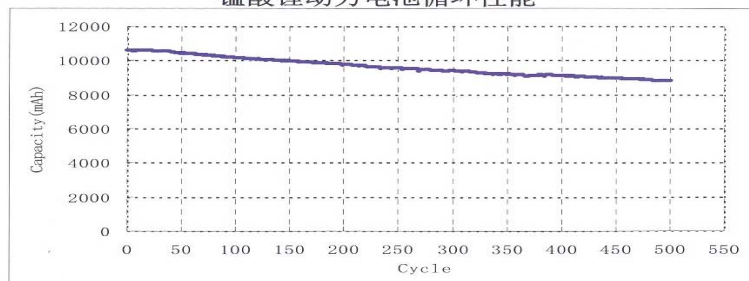
No.	Model	Volt	(Ah)	(g) +/-20 g	SIZE (mm) Approximate			Charge Max (A)	Output Max (A)	Peak Output Max (A)	Max Charge (V)	Suggest discharge cut off (V)	Operate Temperature	Cycle Times
					Length	Width	Height						IEEE	IEEE
1	12V-10Ah	12	10	1750	200	75	105	5A	2C	3C	14.6V	10.0V	-10 ~+55°C	2000
2	24V-10Ah	24	10	3150	320	75	105	5A	2C	3C	29.2V	20.0V	-10 ~+55°C	2000
3	36V-10Ah	36	10	4550	440	75	105	5A	2C	3C	43.8V	30.0V	-10 ~+55°C	2000
4	48V-10Ah	48	10	5950	530	75	105	5A	2C	3C	58.4V	40.0V	-10 ~+55°C	2000
5	36V-8Ah	36	8	3380	410	75	95	4A	2C	3C	42.5V	30.0V	-10 ~+55°C	2000
6	48V-12Ah	48	12	6800	560	75	115	6A	2C	3C	55.25V	40.0V	-10 ~+55°C	2000
7	36V-8Ah	36	8	2070	330	75	100	4A	2C	3C	42.5V	30.0V	-10 ~+55°C	2000
8	36V-10Ah	36	10	3240	330	75	105	5A	2C	3C	42.5V	30.0V	-10 ~+55°C	2000
9	48V-12Ah	48	12	5610	330	75	135	6A	2C	3C	58.4V	40.0V	-10 ~+55°C	2000
10	12V-50Ah	12	50	7000	178	160	200	20A	2C	3C	14.6V	10.0V	-10 ~+55°C	2000



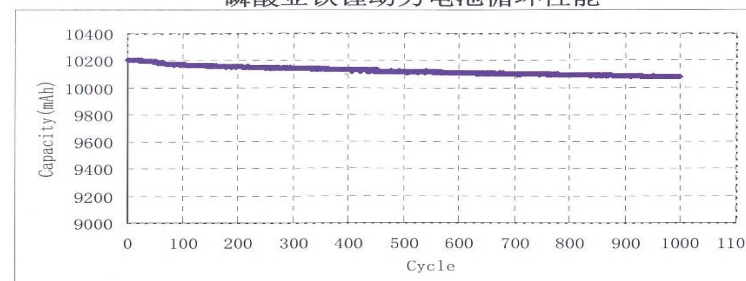
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Characteristic:

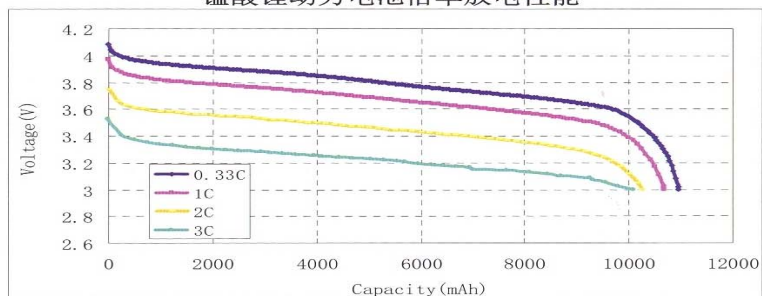
锰酸锂动力电池循环性能



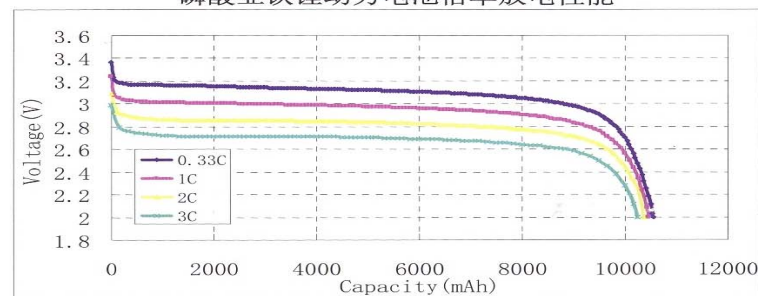
磷酸亚铁锂动力电池循环性能



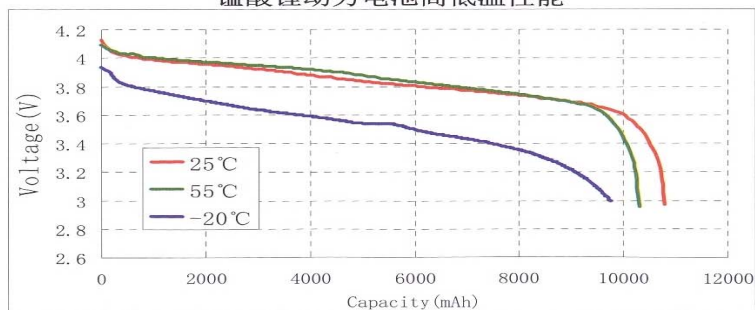
锰酸锂动力电池倍率放电性能



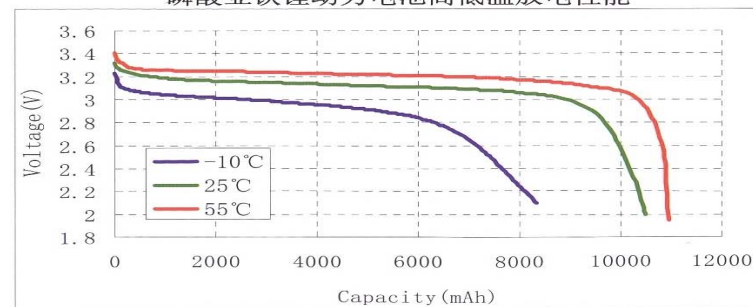
磷酸亚铁锂动力电池倍率放电性能



锰酸锂动力电池高低温性能



磷酸亚铁锂动力电池高低温放电性能



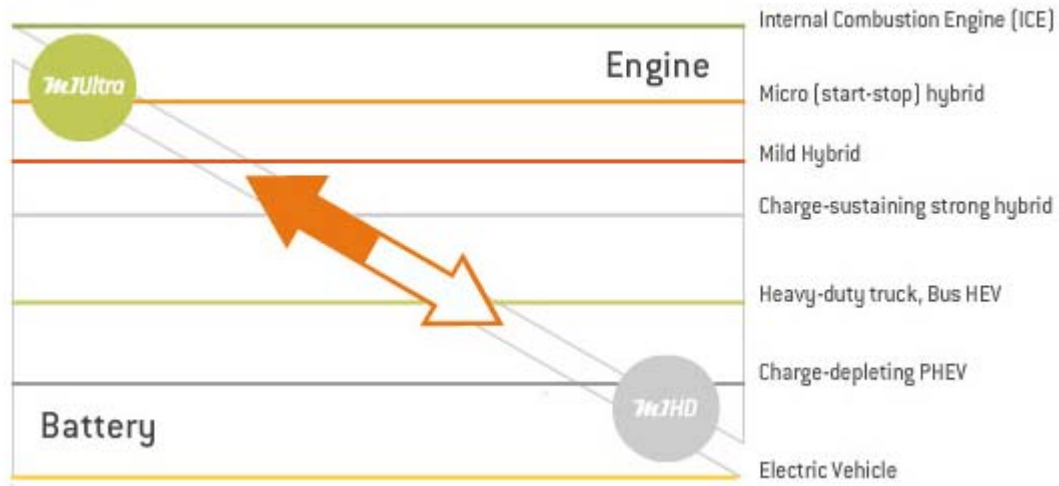


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LiFePO4 HEV Battery (磷酸铁锂动力锂离子电池)

Application:

Good fit to: HEV, PHEV, EV, Heavy Duty & Aviation:



****Transportation:**

Automotive Class Battery module offer super price performance & safety design to deliver a new combination of Power safety & life for transportation application.



**** Heavy duty & Plug In HYBRID**

High Power systems for rigorous heavy application,
Light weight, long life fuel less and emissions saving.



****Advanced Research**

Solution group for government
Project, Activation, Military. Etc





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Single Cell Data:

Specifications	HK-1FR18650	HK-26650	HK-38650
Charge Voltage: 3.65V standard (3.45V float, 4.2V max)	On condition	On condition	Under Development
Nominal Operating Voltage	3.2V	3.2V	Under Development
Nominal Rated Capacity (C/5)	1400 mAh	2300 mAh	Under Development
Max Continuous Discharge	2.8A (2C)	4.6A (2C)	Under Development
Max Pulse Discharge (30 sec)	4.2A (3C)	6.9A (3C)	Under Development
Discharge cut off-volt:	2.5V	2.5V	Under Development
Standard Charging Method: Constant C/current to 3.65 V limit, then Constant 3.65V with current Taper to C/20	On condition	On condition	Under Development
Standard Charging Time (h)	2.5 Hours	2.5 Hours	Under Development
Cycle Life >2,000 cycles (100% DOD) to 80% rated capacity	On condition	On condition	Under Development
Operating Temperature: Charge 0–45 ⁰ C / discharge –10- 50 ⁰ C	On condition	On condition	Under Development
Storage Temperature –40-50 ⁰ C	On condition	On condition	Under Development
Humidity: 5-95% Relative Humidity	On condition	On condition	Under Development
Internal Resistance: 10A 1s DC	13 m Ω typical	10 m Ω typical	Under Development
Cell Weight +/-1 g	40g	70g	Under Development
Cell Dimensions: (+/-0.2 mm)	18x65 mm	26x65 mm	Under Development