

48V LiFePO₄ Battery

WL48-100FT29



TYPICAL APPLICATIONS

- ⊗ Telecom backup system(19' cabinet)
- ⊗ Off grid energy storage system
- ⊗ Wind and PV energy system
- ⊗ UPS system and Data Center
- ⊗ Traffic signal system

GENERAL FEATURE

- ⊗ Long float charge design life(18 years at 25°C)
- ⊗ Rapid charge and discharge performance
- ⊗ Excellent recovery performance after deep discharge
- ⊗ Perfect Protection System
- ⊗ Super safety and reliability due to mature technology
- ⊗ High energy density, light weight and compact size
- ⊗ Ultra long cycle performance
- ⊗ Antitheft Blocking Function programmed by Software
- ⊗ All technical parameters and temperature range for the battery group connection is same as for the single battery
- ⊗ Fire and explosion safety confirmed by UN 38.3 certificate

APPLICABLE STANDARDS

- ⊗ IEC 62619:2017
- ⊗ IEC 62620:2014
- ⊗ IEC 62133:2002
- ⊗ UN38.3
- ⊗ YDB032-2009



Item	Specification
Battery Model	WL48-100FT29 (15S)
Rated Voltage	48V
Rated Capacity	100Ah @C5 rate, 0.2C to 40V @25°C
Weight	Approx. 50kg
Charge Instruction	CC/CV
Internal Resistance	≤200mΩ
Recommended Charge Current	20A (in group connection total charging current less than 100A)
Maximum Charge Current	50A (If charge current is over 50A, it will be limited to 10A)
Maximum Discharge Current	100A
Cycle Life	3500 cycles @ 80% DOD, 35°C
Boost Charge Voltage	54.75V
Float Charge Voltage	54V
Discharge End Voltage	≥39V
Self Discharge @ 25°C	Less than 4% after 30 days storage
Operating Temperature Range	Charge: 0°C to 45°C
	Discharge: -20°C to 55°C
Operating Temperature Range	Storage: -20°C to 45°C
Recommended Operating Temperature	15°C to 35°C
Relative Humidity	25% to 80%
Ventilation requirements	Active ventilation is not required
Case and Cover Material	Sheet metal
Dimension (W ×D ×H)	442mm*505mm*133mm (Do not include handle size)
Dry Contact	Support (Normally Open)
RS232 Port	Support
RS485 Port	Support
Battery Management System (BMS)	Each battery comes with an individual BMS to protect the battery

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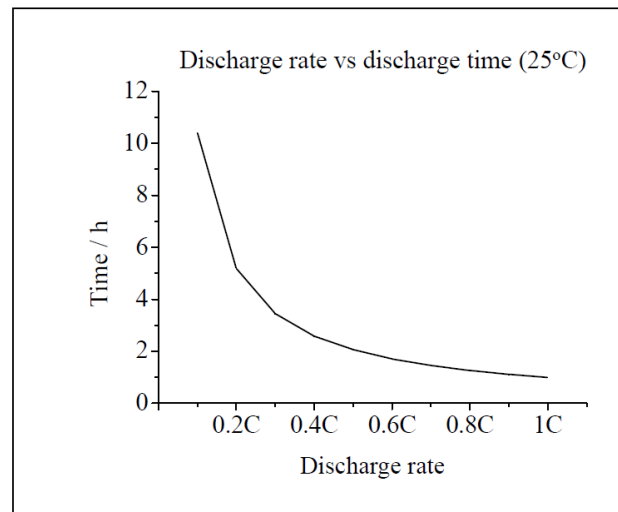
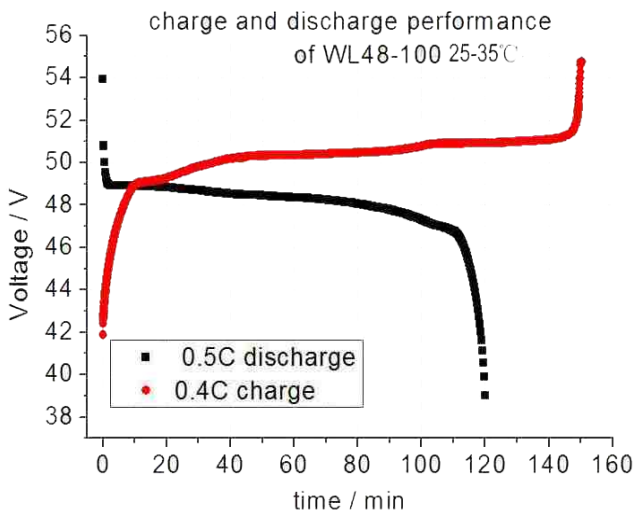
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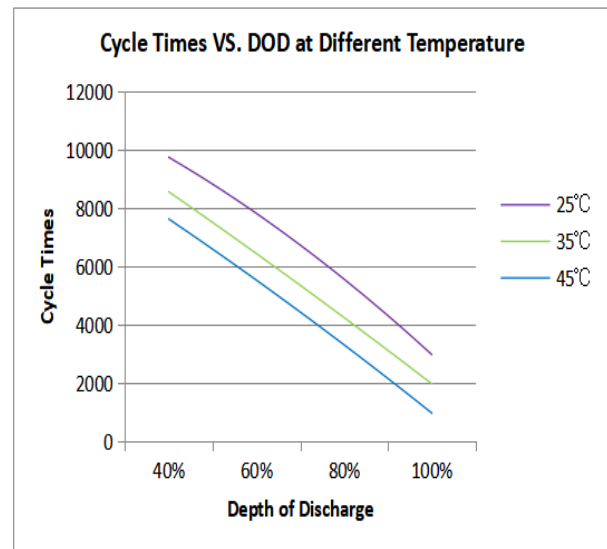
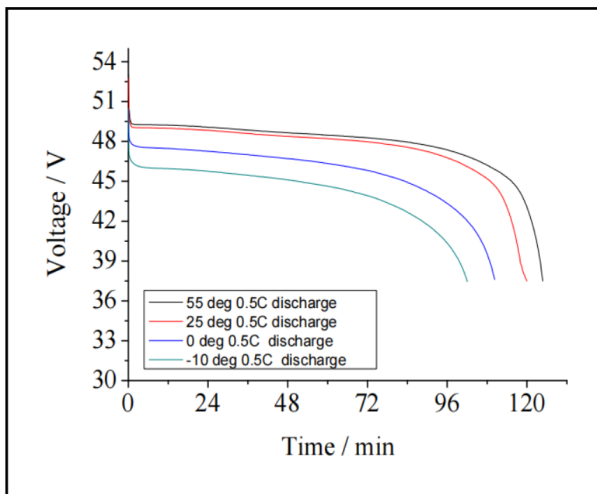
WL48-100FT29

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Constant Current Discharge Characteristics Unit: Time/h (25°C, 77°F)										
Final Voltage	0.1C	0.2C	0.3C	0.4C	0.5C	0.6C	0.7C	0.8C	0.9C	1C
39	10.4	5.19	3.45	2.58	2.07	1.71	1.45	1.27	1.12	0.99
40.5	10.34	5.15	3.42	2.56	2.05	1.69	1.44	1.25	1.11	0.98
43.5	10.18	5.06	3.36	2.5	2	1.66	1.41	1.22	1.07	0.96
45	9.83	4.89	3.23	2.4	1.91	1.58	1.34	1.16	1.01	0.9
46.5	9.46	4.64	2.99	2.19	1.74	1.42	1.18	1.02	0.89	0.79



Different temperature discharge performance



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