

12V | 55 Ah

TLLFP1255



Designed and Engineered
IN THE USA

truelite[®] energy lithium battery LiFePO4 series



true **energy** true **power**
Designed for solar & grid storage applications



MAINTENANCE
FREE



HIGH
PERFORMANCE
LFP



FASTER
RECHARGE



EXTREME
CLIMATE

www.truelitesolar.com

12V | 55 Ah

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true energy true power

Designed for solar & grid storage applications

LFP batteries from truelite is designed for challenging energy storage applications with cutting edge advanced BMS to ensure the perfect combination of Lithium battery chemistry. Truelite has put in a vast experience and research in developing LFP line of energy storage batteries and manufactured in world class facilities with high quality and safety standards.

Truelite LFP batteries are light weight with high en-

ergy and power density makes it most reliable solution for space critical applications and for use in extreme high temperature conditions.

Truelite LFP series uses the best LiFePO4 battery chemistry cylindrical cells with advanced battery management system ensure fast charging and stable discharging makes the right energy storage solution for PV applications especially grid applications.

Key Features

- Excellent float & Superior Lifecycle
- Zero gas emissions
- Zero maintenance
- Reduced weight and pack size
- Decreased facility footprint cost
- System data recording and detailed performance status indicators optional
- Superior Resilience
- Wide operating temperature range without thermal runaway.
- Low self-discharge and low operating costs due to higher energy efficiency

Product Specifications

ELECTRICAL SPECIFICATIONS

Nominal Voltage	12 V
Nominal Capacity	55 Ah
Minimum Capacity	53.2 Ah
Energy	635 Wh
Resistance	≤ 6mΩ
Efficiency	90%
Self Discharge	<4% per month
Charge Voltage	13.1 V

DISCHARGE SPECIFICATIONS

Maximum Discharge Current	7000mA
Standard Discharge Current	4000mA
Discharge Cut-Off Voltage	9.0V
Open Voltage	9.0V ~14.0V
Over Discharge Protection Voltage	2.4V± 0.05V
Over Charge Protection Voltage	4.35V±0.025V
Over Current Protection	10.0 ~18.0A

TEMPERATURE SPECIFICATIONS

Operating Temperature	-20~+60 °C
Atmosphere pressure	86~106kPa
Storage Temperature	-20 to +60°C
High Temperature	55± 2 °C

MECHANICAL SPECIFICATIONS

Dimensions (L x W x H)	500x 100x60mm
Weight	5 kg

Enclosure Protection	IP56
Cell Type	18650/2000mAh/3.7V

CHARGE SPECIFICATIONS

Recommended Charge Current	20A
Maximum Charge Current	60A
Charge Current Cut-Of f	1000A (±100A)
Recommended Charge Voltage	9 V- 14 V

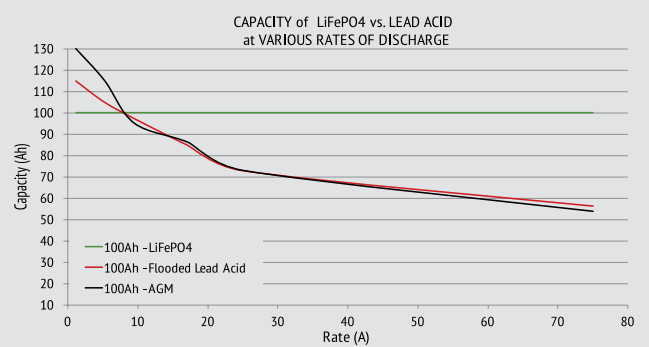
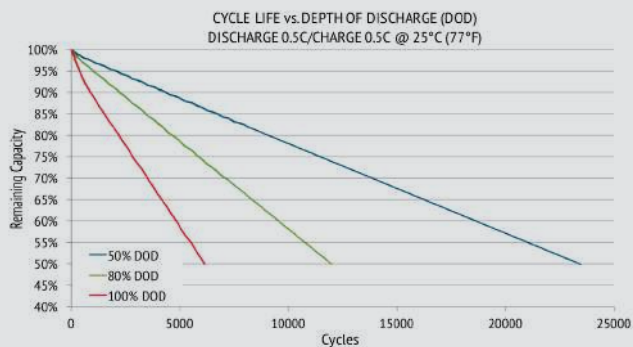
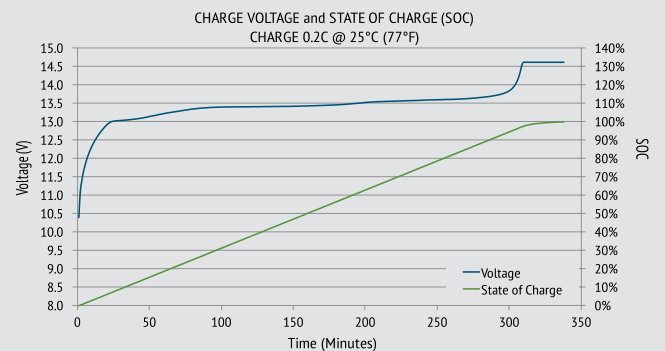
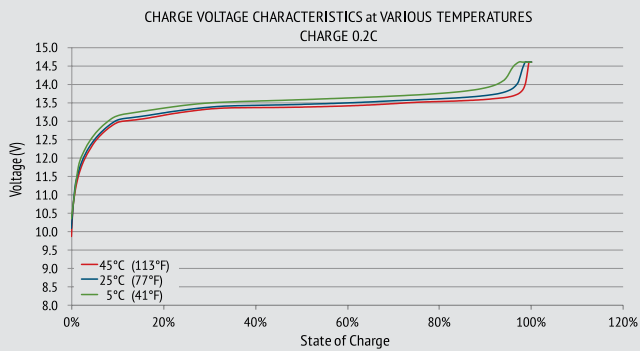
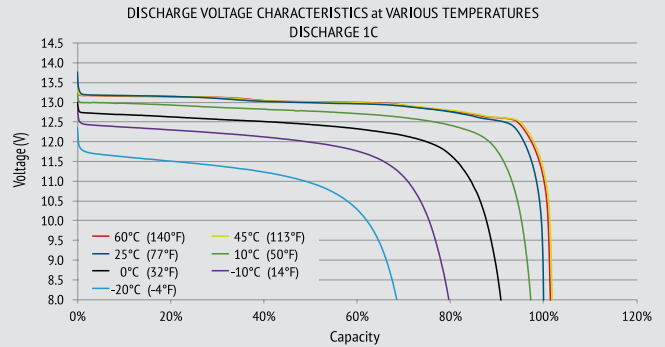
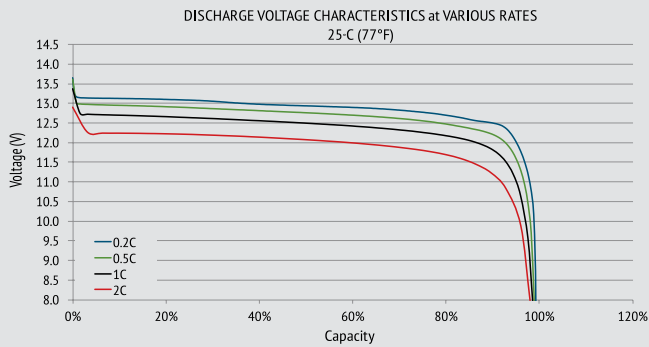


truelite energy

lithium battery

LiFePO4 series

Performance Characteristics



www.truelite.us

Truelite Energy Lithium Battery (02/18)ok

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