

# WALL MOUNTED LITHIUM ION PHOSPHATE BATTERY

CUTTING EDGE DESIGN & PERFORMANCE



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 **Digital Energy**

# LIFE PO4 LITHIUM ION PHOSPHATE BATTERY

## DE1600 SERIES



### FEATURES



#### High cycle life

4000 cycles @80% DoD for effectively lower total of ownership cost.



#### Longer service life

Low maintenance batteries with stable chemistry.



#### Built in circuit protection

Battery Management System (BMS) is incorporated against abuse.



#### Better storage

Up to 6 months thanks to its extremely low self discharge (LSD) rate and no risk of sulphation.



#### Quickly recharge

Save time and increase productivity with less down time thanks to superior charge/discharge efficiency.



#### Extreme heat tolerance

Suitable for use in a wider range of applications where ambient temperature is unusually high: up to +60°C.



#### Lightweight

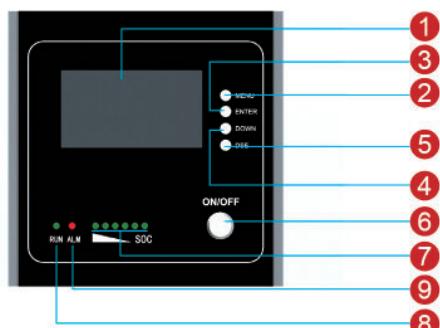
Lithium batteries provide more Wh/Kg while also being up to 1/3 the weight of its SLA equivalent.

### Wall-mounted energy storage system

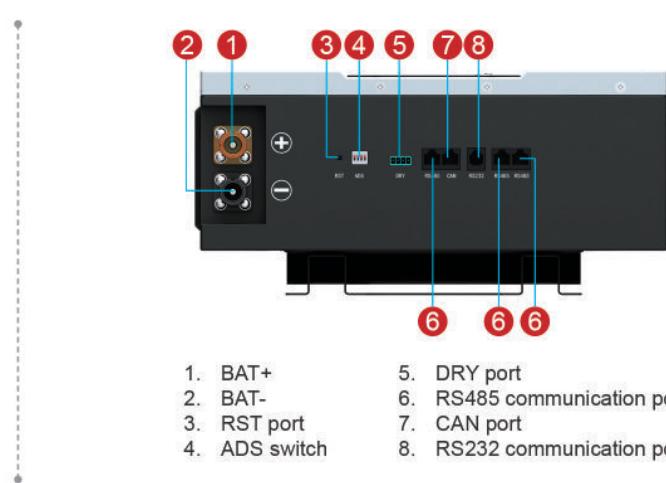
Digital Energy wall mounted Lithium battery (LiFePO4 Battery) solutions are highly integrated, deep cycle backup power solutions for your home energy storage system. With rich experience and advanced techniques, the product has the features of the fashionable design, high energy, high power density, long service life and ease of installation and expansion.

\* Custom capacity is acceptable.

### Input & Output Ports



1. LCD display
2. Menu buttons
3. Enter buttons
4. Down buttons
5. DES buttons
6. Switch on/off
7. SOC indicator
8. RUN indicator
9. Alarm indicator



1. BAT+
2. BAT-
3. RST port
4. ADS switch
5. DRY port
6. RS485 communication port
7. CAN port
8. RS232 communication port



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# LiFe PO4 LITHIUM ION PHOSPHATE BATTERY

## DE1600 SERIES



### SPECIFICATION

#### MODEL

DE16-48100

Nominal voltage		51.2V
Nominal Capacity		100Ah
Nominal energy		5120Wh
Life Cycles		4000+ (80% DoD for effectively lower total of ownership cost)
Recommended Charge Voltage		57.6V
Recommended Charge Current		20.0A
End of discharge voltage		44.0V
Standard method	Charge	20.0A
	Discharge	50.0A
Maximum continuous current	Charge	100.0A
	Discharge	100.0A
BMS Cut-Off Voltage	Charge	<58.4 V (3.65V/Cell)
	Discharge	>32.0V (2s) (2.0V/Cell)
Temperature	Charge	-4 ~ 113°F (0 ~ 45°C)
	Discharge	-4 ~ 131°F (-20 ~ 55°C)
Storage Temperature		23~95°F (-5~35°C)
Shipment voltage		≥51.2V
Module Parallel		Up to 4 units
Communication		CAN2.0/RS232/RS485
Case Material		SPPC
Dimension (L x W x H)		580 x 400 x 145mm 22.8 x 15.7 x 5.7"
Approx. Weight		97lbs (44kgs)
Charge retention and capacity recovery capability		Standard charge the battery, and then put aside at room temperature for 28d or 55°C for 7d, Charge retention rate≥90%, Recovery rate of charge≥90

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