

**GO FURTHER. LAST LONGER. PLAY HARDER.** 



# **DAKOTA LITHIUM 12V 7AH BATTERY**

Rated at 7 Amp Hours, this 12 Volt lithium battery packs a punch and is our smallest and lightest battery. The 7Ah is ideal for industrial purposes where you need a long lifespan battery that charges quickly, or for outdoor uses like hiking or camping where weight is at a premium. Crafted out of Lithium Iron Phosphate (LiFePO4) technology this is a battery built to last. With a lifespan of 2,000 charge cycles this battery will last up to 4 times longer than your typical SLA battery. 12 V LiFePO4 charger recommended.

# **SPECIFICATIONS:**

**VOLTAGE AND CAPACITY** 

12 V 7 Ah 84 Wh

SIZE

5.94" x 2.55" x 3.74" (151 x 65 x 95 mm)

WEIGHT

2 lbs 2 oz (1.30 Kg)

STORAGE CAPACITY

7 Ampere Hours

**TERMINALS** 

Standard F2 terminals (6.35mm or 0.25" wide)

LIFESPAN/LIFECYCLES

Up to 80% capacity for 2,000 cycles in recommended conditions.

DISCHARGE

20 A max continuous, 50 A max 300mS pulse 9.0 V max discharge, 11.0 V max recommended discharge For longest lifetime recommended discharge rate 1-5 Amps. 200%

TWICE THE POWER OF TRADITIONAL BATTERIES

1/2

HALF THE WEIGHT **5**x

CHARGES FIVE TIMES FASTE **4**x

LASTS FOUR TIMES AS LONG 100%

AFE AND RELIABLE

## CHARGE

10 A max. 14 V max recommended, 15 V max. LiFePO4 charger recommended. A SLA charger may work, but will reduce performance and lifespan of the battery.

#### **OPERATING TEMPERATURE**

- 20°F min, +120°F max environmental operating temps. Avoid charging below 32°F.

# **SAFE & RELIABLE**

Includes active BMS protection circuit that handles cell balancing, low voltage cutoff, high voltage cutoff, short circuit protection and temperature protection for increased performance and longer life.



# **SUITABLE FOR:**

- REPLACEMENT FOR SLA 12V
- HIKING, CAMPING, &
   OUTDOORS
- FISH FINDERS &

**FLASHERS** 

- INDUSTRY
- ROBOTICS
- SOLAR LIGHTING
- MOBILITY SCOOTERS
- AND MORE

# DAKOTA LITHIUM 12V 10AH BATTERY

Rated at 10 Amp Hours this 12 Volt lithium battery packs a big punch. Built for extreme conditions, this is our most versatile battery with the perfect amount of juice for electronics like fish finders, flashers, solar lighting, power wheels, and scooters. Engineered with Lithium Iron Phosphate (LiFePO4) technology this battery has a lifespan of 2,000 charge cycles and will last up to 5 times longer than your typical SLA battery. 12 V LiFePO4 charger recommended.

# **SPECIFICATIONS:**

**VOLTAGE AND CAPACITY** 

12 V 10 Ah 120 Wh

SIZE

5.94" x 2.55" x 3.78" (151 x 65 x 96 mm)

WEIGHT

2 lbs 14 oz (1.30 Kg)

STORAGE CAPACITY

10 Ampere Hours

**TERMINALS** 

Standard F2 terminals (6.35mm or 0.25" wide)

LIFESPAN/LIFECYCLES

Up to 80% capacity for 2,000 cycles in recommended conditions.

**DISCHARGE** 

20 A max continuous, 50 A max 300mS pulse 9.0 V max discharge, 11.0 V max recommended discharge For longest lifetime recommended

CHARGE

10 A max. 14 V max recommended, 15 V max. LiFePO4 charger recommended. A SLA charger may work, but will reduce performance and lifespan of the battery.

# **OPERATING TEMPERATURE**

operating temps. Avoid charging below 32°F.

#### SAFE & RELIABLE

Includes active BMS protection circuit that handles cell balancing, low voltage cutoff, high voltage cutoff, short circuit protection and temperature protection for increased performance and longer life.

discharge rate 1-5 Amps.

- 20°F min, +120°F max environmental

- FISH FINDERS, FLASHERS, & BOATING ELECTRONICS
- ICE FISHING
- LIFEPO4 REPLACEMENT FOR SLA 12V
- INDUSTRIAL BATTERIES
- SCOOTER BATTERIES

- SOLAR LIGHTING
- ROBOTICS
- HIKING
- CAMPING
- REMOTE POWER
- AND MORE





# **DAKOTA LITHIUM 12V 18AH BATTERY**

Our 12 Volt 18 Amp Hours lithium battery packs a big punch in a small package. Engineered in a 12Ah SLA case, but with 18Ah of Lithium Iron Phosphate (LiFePo4) technology, this battery has three times the power, half the weight, and lasts 4 times longer than a 12Ah sealed lead acid battery – providing exceptional performance & lifetime value. Optimal performance down to minus 20 degrees Fahrenheit (for winter warriors). 18 Amp hours of capacity provides a full day of power for high amp draw electronics like Garmin fish finders, ice augers, or anything where you need a longer run time. Same performance as our legendary 10 Ah battery, but with 80% more capacity. Drop in replacement for 12Ah SLA batteries (same size, physical dimensions & terminals) but with three times (3X) longer run time. 12V LiFePO4 charger recommended.

# **SPECIFICATIONS:**

**VOLTAGE AND CAPACITY** 

12 V 18 Ah 216 Wh

SIZE

5.94"x 3.95"x 3.78" (151 x 99 x 96 mm)

WEIGHT

6.4 lbs (2.9Kg)

STORAGE CAPACITY

18 Ampere Hours

**TERMINALS** 

Standard F2 terminals (6.35mm or 0.25" wide)

LIFESPAN/LIFECYCLES

Up to 80% capacity for 2,000 cycles in recommended conditions.

**DISCHARGE** 

18 A max continuous, 50 A max 300mS pulse 9.0 V max discharge, 11.0 V max recommended discharge For longest lifetime recommended

CHARGE

9 A max. 14 V max recommended, 15 V max. LiFePO4 charger recommended. A SLA charger may work, but will reduce performance and lifespan of the battery.

# **OPERATING TEMPERATURE**

discharge rate 1-5 Amps.

- 20°F min, +120°F max environmental operating temps. Avoid charging below 32°F.

# **SAFE & RELIABLE**

Includes active BMS protection circuit that handles cell balancing, low voltage cutoff, high voltage cutoff, short circuit protection and temperature protection for increased performance and longer life. 200%

TWICE THE POWER OF TRADITIONAL BATTERIES

1/2

HALF THE WEIGHT **5**X

CHARGES FIVE TIMES FASTER **4**X

LASTS FOUR TIMES AS LON 100%

SAFE ANI RELIABL



- FISH FINDERS, FLASHERS,
   & BOATING ELECTRONICS
- ICF FISHING
- GARMIN FISH FINDERS
- LIFEPO4 REPLACEMENT FOR SLA 12V
- INDUSTRIAL BATTERIES

- MOBILITY SCOOTERS
- 24V ELECTRIC BIKES
- ROBOTICS
- HIKING
- TRAIL CAMERAS
- REMOTE POWER
- AND MORE



# DAKOTA LITHIUM 12V 23AH BATTERY

This 12 Volt 23 Amp Hours lithium battery packs a big punch, providing a full day of power for high amp draw electronics like fish finders, ice augers, or anything where you need a longer run time. Engineered with Lithium Iron Phosphate (LiFePO4) technology this battery has the same performance as our legendary 10 Ah battery, but with 130% more capacity. Replacement for 20Ah SLA batteries. 12 V LiFePO4 charger recommended.

# **SPECIFICATIONS:**

**VOLTAGE AND CAPACITY** 

12 V 23 Ah 276 Wh

SIZE

7.12" x 3.03" x 6.57" (181 x 77 x 167 mm)

WEIGHT

6.4 lbs (2.9 Kg)

STORAGE CAPACITY

23 Ampere Hours

**TERMINALS** 

F12 terminals, Bolt size - M5

LIFESPAN/LIFECYCLES

Up to 80% capacity for 2,000 cycles in recommended conditions.

DISCHARGE

24 A max continuous, 60 A max 10-second pulse 9.0 V max discharge, 11.0 V max recommended discharge

CHARGE

15 A max.

LiFePO4 charger recommended. A SLA charger may work, but will reduce performance and lifespan of the battery.

**OPERATING TEMPERATURE** 

- 20°F min, +120°F max environmental operating temps. Avoid charging below 32°F.

**SAFE & RELIABLE** 

Includes active BMS protection circuit that handles cell balancing, low voltage cutoff, high voltage cutoff, short circuit protection and temperature protection for increased performance and longer life.

- FISH FINDERS, FLASHERS. & BOATING ELECTRONICS
- GARMIN FISH FINDERS
- ICE FISHING
- LIFEPO4 REPLACEMENT FOR SLA 12V
- INDUSTRIAL BATTERIES

- SOLAR LIGHTING
- ROBOTICS
- HIKING / CAMPING
- REMOTE POWER
- OUTDOOR ADVENTURES
- AND MORE



# DAKOTA LITHIUM 12V 54AH BATTERY

Our 12 Volt 54 Amp Hours battery is built for Summers – long days, big sky, great fishing. We built this battery to make the most of the season by combining our legendary lithium iron phosphate cells with a time tested 54 Ah waterproof box. Rated to 54 Amp Hours of capacity, this battery thrives in the deep cycle, providing continuous power for a long time. Perfect for 12 Volt kayak trolling motors for full day adventures, off-grid music systems, or any 12 Volt electronics where you need hours of power.

# **SPECIFICATIONS:**

**VOLTAGE AND CAPACITY** 

12 V 54 Ah 648 Wh

SIZE

9.01" x 5.43" x 8.38" (229 x 138 x 213 mm)

WEIGHT

17.6 lbs (8 Kg)

STORAGE CAPACITY

54 Ampere Hours

**TERMINALS** 

F12 terminals. Bolt size - M6

LIFESPAN/LIFECYCLES

Up to 80% capacity for 2,000 cycles in recommended conditions.

DISCHARGE

50 A max continuous, 100 A max 10-second pulse 9.0 V max discharge, 11.0 V max recommended discharge

CHARGE

25 A max.

LiFePO4 charger recommended. A SLA charger may work, but will reduce performance and lifespan of the battery.

**OPERATING TEMPERATURE** 

- 20°F min, +120°F max environmental operating temps. Avoid charging below 32°F.

**SAFE & RELIABLE** 

Includes active BMS protection circuit that handles cell balancing, low voltage cutoff, high voltage cutoff, short circuit protection and temperature protection for increased performance and longer life. 200%

TWICE THE POWER OF TRADITIONAL BATTERIES

1/2 5x 1

HALF LA FOUR AS LONG

691 Wh · LiFePO4 BATTERY

100% SAFE AND

**SUITABLE FOR:** 

TROLLING MOTORS

12 VOLT ELECTRONICS

BOATING & FISHING
 ELECTRONICS

WET ENVIRONMENTS

OFF GRID SPEAKERS

KAYAK FISHING

BOATING / MARINE
 DEEP CYCLE

• EMERGENCY POWER

REMOTE POWER

OUTDOOR ADVENTURES

AND MORE



# DAKOTA LITHIUM 12V 100AH BATTERY

Our 12 Volt 100 Amp Hours battery is our flagship model, perfect for a wide variety of applications, this battery excels in the deep cycle where you need hours of dependable power. Built with our legendary lithium iron phosphate technology the 100 Ah battery provides exceptional performance combined with a long lifespan. With 2,000+ recharge cycles (and up to 5,000 under ideal charging conditions) the 100 Ah provides 5 X the lifespan of a lead acid battery. Combine 2 for 24 Volts or 3 for a 36 Volt system. Perfect for solar panel storage applications.

# **SPECIFICATIONS:**

**VOLTAGE AND CAPACITY** 

12 V 100 Ah 1280 Wh

SIZE

12.99" x 6.77" x 8.66" (330 x 172 x 220 mm)

WEIGHT

31.9 lbs (14.5 Kg)

STORAGE CAPACITY

100 Ampere Hours

**TERMINALS** 

F12 terminals. Bolt size - M8

LIFESPAN/LIFECYCLES

Up to 80% capacity for 2,000 cycles in recommended conditions.

DISCHARGE

100 A max continuous, 200 A max 10-second pulse 9.0 V max discharge, 11.0 V max recommended discharge

CHARGE

50 A max.

LiFePO4 charger recommended. A SLA charger may work, but will reduce performance and lifespan of the battery.

**OPERATING TEMPERATURE** 

- 20°F min, +120°F max environmental operating temps. Avoid charging below 32°F.

**SAFE & RELIABLE** 

Includes active BMS protection circuit that handles cell balancing, low voltage cutoff, high voltage cutoff, short circuit protection and temperature protection for increased performance and longer life.

TWICE TH TRADITION



**SUITABLE FOR:** 

ELECTRIC VEHICLES

BOATING &
 SAILBOAT BATTERIES

HOME ENERGY STORAGE

SOLAR STORAGE

DIY POWERWALLS

EMERGENCY POWER

RVS

GOLF CARTS

NEIGHBORHOOD
 ELECTRIC VEHICLES (NEV)

 OFF GRID ENERGY STORAGE

AND MORE

1280 Wh · LiFePO4 BATTERY

# DAKOTA LITHIUM 12V 170AH BATTERY - DL 170

When you go off grid you need to be prepared for all that mother nature can throw at you. With the DL 170 we built our biggest and most energy dense battery yet ready for long nights in the ice hut, or long days rolling the open road in your RV. Packed with Lithium Iron Phosphate (LiFePO4) technology this is a battery built to last. With a lifespan of 2,000 charge cycles this battery will last up to 5 times longer than your typical SLA battery – providing exceptional value over time for electric vehicle owners, off grid solar users, and RV adventurers.

# **SPECIFICATIONS:**

**VOLTAGE AND CAPACITY** 

12 V 170 Ah 2040 Wh

SIZE

13.68" x 6.12" x 10.63" (347 x 155.4 x 270 mm)

WEIGHT

46.3 lbs (21 Kg)

STORAGE CAPACITY

170 Ampere Hours

**TERMINALS** 

F12 terminals. Bolt size - M12

LIFESPAN/LIFECYCLES

Up to 80% capacity for 2,000 cycles in recommended conditions.

DISCHARGE

100 A max continuous,200 A max 10-second pulse9.0 V max discharge,11.0 V max recommended discharge

CHARGE

50 A max.

LiFePO4 charger recommended. A SLA charger may work, but will reduce performance and lifespan of the battery.

**OPERATING TEMPERATURE** 

- 20°F min, +120°F max environmental operating temps. Avoid charging below 32°F.

**SAFE & RELIABLE** 

Includes active BMS protection circuit that handles cell balancing, low voltage cutoff, high voltage cutoff, short circuit protection and temperature protection for increased performance and longer life. 200%

TWICE THE POWER OF TRADITIONAL BATTERIES

1/2

HALF THE WEIGH **5**X

CHARGES FIVE TIMES FASTER **4**X

LASTS FOUR TIMES AS LONG 100%

SAFE AND RELIABLE



- TROLLING MOTORS
- 12 VOLT ELECTRONICS
- BOATING & FISHING
   ELECTRONICS
- WET ENVIRONMENTS
- OFF GRID SPEAKERS
- KAYAK FISHING

- BOATING / MARINE
   DEEP CYCLE
- EMERGENCY POWER
- REMOTE POWER
- OUTDOOR ADVENTURES
- AND MORE

# DAKOTA LITHIUM 24V 50AH BATTERY

Our single 24 volt lithium battery will power your passion from morning to night. 52.5 Amp hours (Ah) of capacity is optimal for a full day of fishing with 24V trolling motors, or to be linked in series or parallel for solar energy storage in the home, RV, boat, or off grid applications. Ideal for deep cycle applications in marine environments where you need lots of power for a long time. Integrated smart tech one touch volt-meter and LCD screen shows the voltage, and capacity/power remaining. Engineered with Lithium Iron Phosphate (LiFePo4) technology this single battery has twice the power, half the weight, and lasts 4 times longer than a lead acid battery - providing exceptional lifetime value. Built for endurance in rugged environments and cold conditions, this battery has a cycle life of 2,000 - 5,000 recharge cycles and is backed up by a best in class 11 year warranty.

# **SPECIFICATIONS:**

#### **VOLTAGE AND CAPACITY**

24V rated (26.6V resting voltage) 1394 Wh

## SIZE

12.99" x 6.77" x 8.66" (330 x 172 x 220 mm)

#### WEIGHT

31.9 lbs (14.5Kg)

# STORAGE CAPACITY

52.5 Ampere Hours

#### **TERMINALS**

F12 terminals. Bolt size - M8

#### LIFESPAN/LIFECYCLES

Up to 80% capacity for 2,000 cycles in recommended conditions.

## DISCHARGE

52.5 A max continuous, 100 A max 10-second pulse 9.0 V max discharge, 11.0 V max recommended discharge

#### CHARGE

15 A max.

LiFePO4 charger recommended. A SLA charger may work, but will reduce performance and lifespan of the battery.

# **OPERATING TEMPERATURE**

- 20°F min, +120°F max environmental operating temps. Avoid charging below 32°F.

## **SAFE & RELIABLE**

Includes active BMS protection circuit that handles cell balancing, low voltage cutoff, high voltage cutoff, short circuit protection and temperature protection for increased performance and longer life.

- TROLLING MOTORS
- 12 VOLT ELECTRONICS
- BOATING & FISHING **ELECTRONICS**
- WET ENVIRONMENTS
- OFF GRID SPEAKERS
- KAYAK FISHING

- BOATING / MARINE DEEP CYCLE
- EMERGENCY POWER
- REMOTE POWER
- OUTDOOR ADVENTURES
- AND MORE



# DAKOTA LITHIUM 36V 63AH BATTERY

Our single 36 volt 63 amp hour battery will power your passions from morning to night. 63 Amp hours (Ah) of capacity is optimal for 36v trolling motors with up to 110 lbs of thrust or <60 max amp draw, small electric vehicle motors or any 36v deep cycle application in marine or rugged environments where you need lots of power for a long time. Engineered with Lithium Iron Phosphate (LiFePo4) technology this battery has twice the power, half the weight, and lasts 4 times longer than a lead acid battery - providing exceptional lifetime value. Built to endure, this extended lifespan battery is backed up by an 11 year warranty.

# **SPECIFICATIONS:**

**VOLTAGE AND CAPACITY** 

36V 2268 Wh

# SIZE

20.6" x 9.3" x 8.66" (522 x 238 x 220 mm)

# WEIGHT

59 lbs (26.7 Kg)

# STORAGE CAPACITY

63 Ampere Hours

# **TERMINALS**

F12 terminals. Bolt size - M8

# LIFESPAN/LIFECYCLES

Up to 80% capacity for 2,000 cycles in recommended conditions.

# DISCHARGE

60 A max continuous, 100 A max 10-second pulse 9.0 V max discharge, 11.0 V max recommended discharge

#### CHARGE

31.5 A max.

LiFePO4 charger recommended. A SLA charger may work, but will reduce performance and lifespan of the battery.

# **OPERATING TEMPERATURE**

- 20°F min, +120°F max environmental operating temps. Avoid charging below 32°F.

Includes active BMS protection circuit that handles cell balancing, low voltage cutoff, high voltage cutoff, short circuit protection and temperature protection for increased performance and longer life.

# **SAFE & RELIABLE**

- 36V TROLLING MOTORS
- 36V ELECTRIC MOTOR
- EXCELLENT FOR MINNKOTA MOTORS
- PREFERRED UPGRADE FOR GARMIN MOTORS
- IDEAL FOR LOWRANCE MOTORS

- COMPATIBLE WITH ONBOARD CHARGING
- BOATING / MARINE DEEP CYCLE
- OUTDOOR ADVENTURES
- REMOTE POWER
- AND MORE

# CHARGER COLLECTION



# DAKOTA LITHIUM LITHIUM CHARGERS

Unlock the potential of your Dakota Lithium battery with a lithium compatible charger, optimized to ensure the best performance, and a long lifespan for your lithium battery. Compatible with lithium-ion (li-ion), lithium iron phosphate (LiFePO4 or LFP), lithium-manganese-cobalt-oxide (NMC), or lithium titinate oxide (LTO) batteries.

# **SPECIFICATIONS:**

#### FOR LITHIUM AND LIFEPO4 BATTERIES

We highly reccomend you use a LiFePO4 compatible charger. Chargers for lead acid batteries may work, but will decrease performance and lifespan of the battery.

### **TERMINAL CONNECTIONS**

Alligator clips / Anderson SB 50 connections depending on charger

# **SMART BMS COMMUNICATION**

Charger will restart or "wake up" a Dakota Lithium BMS that has turned off a battery due to short circuit or excessive amp draw. Simply connect the charger to the battery to initiate a restart.

#### **HOW FAST WILL MY BATTERY CHARGE?**

This depends on the amp rating of the charger. To determine your charging speed take the amp hour rating of your battery and divide by the charger amp rating.

#### **CAN I CHARGE MY BATTERY FASTER?**

For most applications a charging time of 3 - 10 hours provides the longest lifespan for your battery. But if you have an application where you need rapid charging Dakota Lithium batteries can be safely charged in up to 1 hour (at a rate of 1C). For example, you could use a 20 amp charger with a 23 Ah battery for a 1 hour charge time. Charging at a 1 hour rate does reduce the lifespan over time. In our laboratory testing we found that the longest lifespan for Dakota Lithium batteries was at a charging speed of 0.3C or less (we recommend that the charger amp rating is 1/3 or less of the battery amp hour rating for longest lifespan).

#### WHAT VOLTAGE SHOULD LIFEPO4 BATTERIES BE CHARGED AT?

14.4 volts is recommended for 12V Dakota Lithium (LiFePO4) batteries.

#### CHARGER USAGE

Please follow the usage guidelines associated with each different size of charger





# **DAKOTA LITHIUM POWERBOX 10**

Whether you are camping in a tent, cruising in your kayak, or working off grid, the Dakota Lithium Powerbox helps keep all of your electronics charged up and ready to go. Built to power all your passions, the Powerbox gives you the freedom to use one battery to power many things. Designed to be a universal and mobile power station, including two USB charging ports, a 12v car plug, and binder posts. For night time use the Powerbox 10 comes equipped with a high efficiency LED flashlight. For longer expeditions solar panels can quickly be connected to the binder posts, providing you with dependable power. All built in a water/shock resistant case. 12v Dakota Lithium LiFePO4 10Ah battery and charger included.

# **SPECIFICATIONS:**

### **POWERED BY**

12 V 10 Ah LiFePO4 battery

# SIZE

8.5" x 6.75" x 4.25"

# WEIGHT

4 lbs

# STORAGE CAPACITY

10 Ampere Hours

# WATERPROOF RATING

Water resistant and built for wet environments. Not submersible. Rubber caps must be replaced to ensure sockets are water resistant.

## **DUAL USB CHARGING PORTS**

Easy way to charge your phone, camera, or any personal electronics

#### 12V CAR PLUG

Same type of socket that you have in your car

#### **BINDER POSTS**

Used as 12v output and to charge your box. A versatile way to power many types of electronics

# TWO WATERPROOF LED LIGHTS

Make this power box into a powerful flashlight that lasts forever

## **VOLTAGE READER**

Provides real time data on how much voltage you are using.

#### **SAFE & RELIABLE**

Includes active BMS protection circuit that handles cell balancing, low voltage cutoff, high voltage cutoff, short circuit protection and temperature protection for increased performance and longer life.

- EMERGENCY POWER SOURCE
- MOBILE POWER SOURCE
- HOME ELECTRONICS
- CAMPING & HIKING
- KAYAKING & FISHING
- EXTREME ENVIRONMENTS

- WORKING REMOTELY WHILE OFF GRID
- CONSTRUCTION SITES
- STEREO, AV, & MUSIC
- AND MORE





# **CONTACT INFORMATION:**

SALES: 1.855.743.327 sales@dakotalithium.com SUPPORT: support@dakotalithium.com 920 SOUTH HOLGATE STREET SUITE 106 SEATTLE WASHINGTON 98134

DAKOTALITHIUM.COM