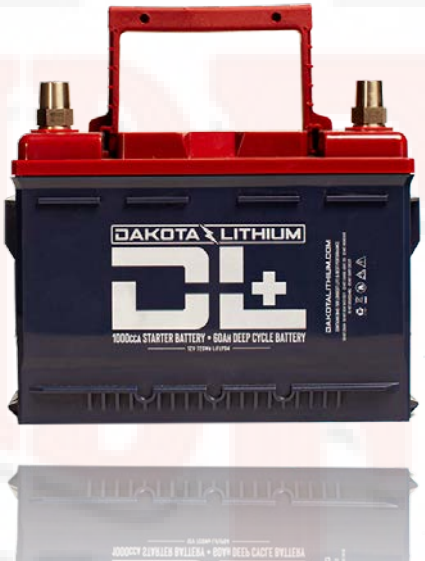
ISO 9001 2015 CERTIFIED

NATIONWIDE BATTERY

MARINE | GOLF | INDUSTRIAL | AUTO | SPECIAL APPLICATIONS | SOLAR

DL+ 12 60

- **LiFePO4 11 YEARS OF WARRANTY**



- Voltage: 12V
- Reserve Capacity: 60Ah
- Energy [Wh]: 720
- Active BMS Protection
- Weight: 16.5 lbs (7.5 kg)
- Length: 9.5 in (242.5 mm)
- Width: 6.9 in (176mm)
- Height: 7.44 in (189 mm)
- M8
- Operating Temperature: -20F to +150F
- **Battery Charger included**

UL 1642 UN 38.3 IEC 62133

A multi-purpose work horse, the DL+ 12V 60Ah is built for high performance in the most rugged and varied of conditions. Start your car engine, crank up the car audio, or run your trolling motor or other deep cycle electronics — this is one battery built to power many passions. 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 for dual purpose performance the DL+ provides 1,000 cold cranking amps (CCA) and a high continuous discharge rate, making it a great choice for high amp draw applications like starting engines, car audio, heavy machinery, golf carts, as a car battery, or any electronics that require a lot of power at one time. In addition, the DL+ provides the same legendary deep cycle marine performance that Dakota Lithium batteries are known for, giving you lots of power for a long time. This is the most versatile Dakota Lithium battery and includes a terminal adapter kit compatible with most marine, automotive, and deep cycle applications. Easily link in series to create 24V, 36V, or 48V systems. LiFePO4 charger included. Backed up by an 11 year warranty.

200%	1/2	5X	4X	100%
TWICE THE POWER OF TRADITIONAL BATTERIES	ONE HALF THE WEIGHT	CHARGES UP TO 5X FASTER	LASTS 4X LONG	SAFE & RELIABLE

DAKOTA LITHIUM

MODEL **DL+ 12 60**
VOLTAGE **12V**
CAPACITY **60Ah**
BATTERY TYPE **Dual Purpose Lithium Iron Phosphate**
CYCLE LIFE **> 2,000 CYCLE @ 80% DOD**
INTELLIGENCE **Active BMS Protection**
CERTIFICATION **UN38 / UL1642 / IEC62133**

12V

PRODUCT + PHYSICAL SPECIFICATIONS

BCI Group Size	Type	Voltage	Cell(s)	Terminal Type [G]	Dimensions [C] Inches (mm)			Weight Lbs. (kg)
					Length	Width	Height [F]	
24, 78, 51R	**DL+ 12 60**	**12**		**M8**	**9.5 (242.5)**	**6.9 (176)**	**7.44 (189)**	**16.5 (7.5)**

ELECTRICAL SPECIFICATIONS

Capacity [A] Minutes				Energy (Wh)	Short Circuit Current (amps)
@ 25 Amps	5-Hr	10-Hr	20-Hr	20-Hr	
-	**60**	**60**	**60**	**720**	

CHARGING INSTRUCTIONS

Charger Settings	
Recommended Charging Voltage	14.4V
Maximum Charging Voltage	15 V
Maximum Charging Current @ Temperature	
> 32F (0C)	30
14F to 32 F (-10C TO 0C)	N/R
-4 F to 14 f (-20C to -10C)	N/R

UL 1642 UN 38.3 IEC 62133

Electrical Features	
Continuous Discharge Current	100Amps
Pulse Discharge Current @ 77°F (25°C)	750
Communication	N/A
BMS Protections	Cell balancing, low/high voltage cutoff, short circuit, high temperature
BMS Functions	Cell Balancing
Safety Systems	BMS
Series Connections	
Parallel Connections	
Discharge Voltage Cutoff	9.0V
Maximum Discharge Voltage	11.0V
Data Logging	
Other Features	
Environmental Protection	
Shipping Classification	
Case Flame Rating	
CCA	1000

CHARGING INSTRUCTIONS

80A max, 14.4V recommended, 15V max. Avoid charging below 32F

CHARGER INCLUDED

Free 12V 10A LiFePO4 charger included

OPERATIONAL DATA

Optimal Operating Temperature	Recommended Storage Temperature
-20°F to 150°F (-6°C to 49°C) **At temperatures below 32°F (0°C)** **Charging Current Reduced**	**-20F to 120F (-6C to 49C)**

NATIONWIDE BATTERY

HALF THE WEIGHT. TWICE THE POWER

All Dakota Lithium batteries are engineered with Lithium Iron Phosphate technology (LiFePO4) providing long lasting performance in the harshest environments. Allowing you to go further, last longer, and play harder.

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11 YEAR WARRANTY

Dakota Lithium offers a best in class 11 year pro-rated warranty on all of our batteries.

AMERICAN INNOVATION & USA BASED SUPPORT

SAFETY

Dakota Lithium has engineered the safest lithium battery technology on the market today - a battery that is safer than the one in your cellphone, camera, or laptop. Here are a few examples of how we manage safety here at Dakota Lithium:

SAFETY BATTERY MANAGEMENT SYSTEM (BMS) - Ensures safety and long battery lifespan All Dakota Lithium batteries include an 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. Safety measures provided by the BMS prevent overheating. All Dakota Lithium batteries have a BMS that can support linking batteries in series or parallel.

LITHIUM IRON PHOSPHATE - LiFePO4 Different Li-ion batteries use different chemistries. Dakota Lithium exclusively engineers our batteries using lithium iron phosphate or LiFePO4 for short. Lithium Iron Phosphate batteries are the safest lithium battery chemistry. Unlike the cell phone battery in your pocket, or the laptop battery on your desk, the structural stability of LiFePO4 results in significantly less heat generation compared to other lithium chemistries.

NO THERMAL RUNAWAY - Dakota Lithium cells do not produce oxygen The main cause of fire or explosion of a lithium ion battery is due to the cells being compromised or ruptured, which causes thermal runaway. Without proper management, thermal runaway may result in fire. Dakota Lithium LiFePO4 is extremely stable and does not produce the oxygen needed to aid thermal runaway and unlike other lithium battery chemistries will not result in a catastrophic meltdown.

100% COBALT FREE - No rare earth elements NCM and other lithium ion chemistries that contain rare earth elements such as Colton or Cobalt produce oxygen and toxic fumes when ruptured, leading to fire. Dakota Lithium does not contain rare earth elements, and does not produce oxygen or is prone to fire.

CERTIFICATIONS - Tested and certified for safety and reliability Dakota Lithium batteries meet U.N. 38.3 standards and built from grade A cells. Dakota Lithium's cells are UL1642 certified and have been tested per IEC62133 standards. UN Manual of Tests and Criteria certified, and meets all US & International regulations for air, ground, marine, and train transport. Dakota Lithium is ISO Certified per 9001:2015 standards, and select models are produced in ISO 14001 certified facilities. IEC62133 certifications and additional laboratory services are available as required by our OEM clients.

INSTALLATION & CARE - Treat your batteries right When proper installation and battery care is followed, your LiFePO4 battery will be safe and reliable for many years. This includes making sure all connections are tight and proper wiring sizes are used, ***compatible chargers*** and charging components are used, and the batteries are used for purposes that they are designed for.