ISO 9001 2015 CERTIFIED

NATIONWIDE BATTERY

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

DL+ 12 560

- **LiFePO4 11 YEARS OF WARRANTY**

- Voltage: 12V
- Reserve Capacity: 560Ah
- Energy [Wh]: 6720
- Active BMS Protection
- Weight: 117 lbs (53 kg)
- Length: 26.3 in (670 mm)
- Width: 7.7 in (195mm)
- Height: 9.85 in (250 mm)
- M10
- Operating Temperature: -20F to +150F
- **Battery Charger included**

UL 1642 UN 38.3 IEC 62133

Built to power an off grid farm or home during a cold North Dakota winter, the DL+ 12V 560 Ah battery is our most compact and powerful battery yet — ready for long expeditions in your RV, extended ocean voyages in your boat, or plenty of power for your air conditioner or off grid system. Engineered for maximum energy density, this battery has 560 Amp Hours of capacity in a waterproof battery case the size of a two 100 Amp Hour batteries. That's 6X the amount of usable power, allowing you to replace a marine or solar battery bank of 12 AGM or lead acid batteries with a single DL+ 560.

600%	1/2	5X	8X	100%
Six TIMES THE POWER OF TRADITIONAL BATTERIES	ONE HALF THE WEIGHT	CHARGES UP TO 5X FASTER	LASTS 8X AS LONG	SAFE & RELIABLE

DAKOTA LITHIUM

MODEL **DL+ 12 560**
VOLTAGE **12V**
CAPACITY **560Ah**
BATTERY TYPE **Dual Purpose Lithium Iron Phosphate**
CYCLE LIFE **> 5,000 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]	
	DL+ 12 560	**12**		**M10**	**26.3 (670)**	**7.7 (195)**	**9.85 (250)**	**117 (53)**

ELECTRICAL SPECIFICATIONS

Capacity [A] Minutes				Energy (Wh)	Short Circuit Current (amps)
@ 25 Amps	5-Hr	10-Hr	20-Hr	20-Hr	
-	**560**	**560**	**560**	**6720**	

CHARGING INSTRUCTIONS

Charger Settings	
Recommended Charging Voltage	14.4V
Maximum Charging Voltage	15 V
Maximum Charging Current @ Temperature	
> 32F (0C)	300
14F to 32 F (-10C TO 0C)	N/R
-4 F to 14 f (-20C to -10C)	N/R

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CHARGING INSTRUCTIONS

300A max, 14.4V recommended, 15V max. Avoid charging below 32F

CHARGER INCLUDED

Free 12V 10A LiFePO4 charger included

Electrical Features	
Continuous Discharge Current	300Amps
Pulse Discharge Current @ 77°F (25°C)	600
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

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.