

Apogee Power

Lithium 6T Starting/Deep Cycle Battery
US MIL-PRF-32565C 6T (LiFePO4) Battery
(SD-6)



Apogee's reliable, safe, robust,
economical and easy to install
6T battery is engineered to
meet the performance
specifications and demanding
requirements of the

Army
Navy
Air Force
Marines

and other branches of the
military, federal and local law
enforcement, federal agencies
and commercial customers.

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ARMY

NAVY



AIR FORCE

MARINES



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COAST GUARD

NATIONAL GUARD



FEDERAL, STATE, CITY, AND COMMERCIAL ENTITIES



The Apogee 6T battery doesn't require changes to a vehicle's existing charging system. It is the ideal drop-in replacement of existing low-performing lead acid batteries for engine starting, deep cycle applications, military silent watch, long term communications and renewable power storage.

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Engine start: Increased power and fast recharge, drop-in replacement for lead-acid battery. Greater usable energy enables more starting power and deep cycling.

Silent watch: Provides long duration usable energy for power vehicle systems and communication in an engine-off mode.



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Renewable power storage: 6T can support a number of renewable power applications for longer runtimes, faster recharging, long life, lightweight and meets or exceeds the highest safety standards.

Key Features and Benefits

RELIABILITY

High power density and energy density

Long life cycle / high efficiency

Quick charging time (15 min)

Waterproof (IP67)



SAFETY

Intelligent battery management control system

NO thermal runaway, NO fire, NO explosion.

Fuel gauge

Remote control

Key Features and Benefits

ROBUST

Built for extreme conditions

High temperature and humidity tolerance

ECONOMICAL

Low running and maintenance costs

USER FRIENDLY

Easy to install

Doesn't change existing lead-acid charger system.

The match up charger is inexpensive.

Best Choice for High-Power Systems

Weapons Systems



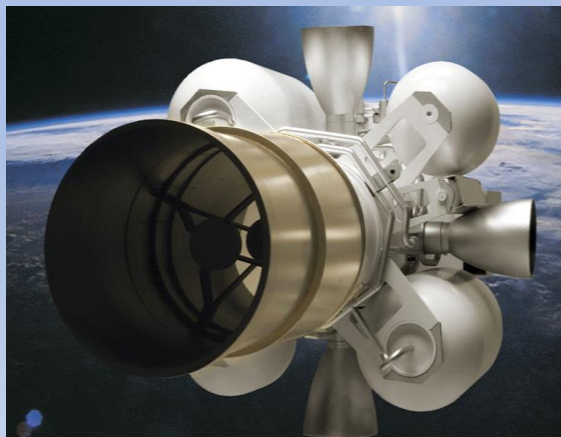
Navy Ships



Control Stations



Military Satellites



Best Choice for High-Energy Systems



Forward Operation Bases



Military Ground Vehicles



Underwater Vehicles

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CHARGE METHOD

Embedded charging circuit; charge using 30VDC power supply.

Vehicle Charging: 28VDC to 30VDC

Recommended Charging current: 55A

Fast Charging: 220A (4C)

SAFETY

- ◆ Over-voltage protection
- ◆ Low-voltage protection
- ◆ Over-current protection
- ◆ Short circuit protection
- ◆ Cell Balancing
- ◆ Over temperature protection
- ◆ BMS leak-current sleeping design

APPLICABLE STANDARDS

- ◆ UN-38.3
- ◆ MIL-STD-32565 series
- ◆ MIL-STD-810G
- ◆ MIL-STD-461G
- ◆ MIL-STD-1275
- ◆ *Certified UL-1642(for cell)*
- ◆ *Certified UL-1973(for pack)*



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Electrical	
Capacity(typical)	55AH
Max .Voltage	28.4V
Nom .Voltage	24V
Min .Voltage	20V
Max .Discharge .Current	1100 A, 55 °C at 30 sec
Life Cycle((Charge and discharge 1C/1C 100% DOD)	2500 Cycle life
Mechanical	
Dimensions	(L;W;H) 335mm X 300mm X 281mm
Weight	21.8Kg
Battery Housing	ABS 94V0
Waterproof	IP67
Color	Coyote Brown
Environmental	
Charge	0°C to 50°C
Discharge	-20°C to 71°C
Storage	-20°C to 60°C
Humidity	10% - 90%

ADVANCE OF 6T LITHIUM-ION BATTERY

DOD is converting all weapons systems and trucks to new
6T LiFePO4

6T Li-ion will replace one million DOD Lead Acid 6T's in use
The 6T battery is the only battery in the DOD QPL

Combat and Tactical Vehicles



12V -Lead acid 6T
Battery 80Kg total

Each 24V Li-ion 6T Battery
Replaces 2 lead-acid 6Ts 21.8Kg

Army Water Craft Systems (AWS)

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ADVANCE OF 6T LITHIUM-ION BATTERY

We deliver the safest, patent protected, thermal runaway proof, lithium-ion battery technology in the world to the world.

Apogee Power has designed a special casing for the DOD Drop Test. It has passed internal testing and the 7.62 caliber shooting test.

Our battery packs have been scientifically proven to **NOT** Spontaneously Combust or Explode.

Apogee Power LiFePO₄ battery packs **will not** be the cause of a loss of equipment or personnel.





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ADVANCE OF 6T LITHIUM-ION BATTERY

Benefits of lithium-ion 6T vs lead-acid 6T

Reduced weight and size

Increased power density for modern and future weapons

6T Lithium-ion battery standardized by US DOD.

The Apogee Power 6T battery technology, development and manufacturing is currently based in Taiwan.

6T Battery Features and Functions

More Power: 20 C discharging current

Greater Safety: Smart control and fuel indicator

Heavy Duty duration: Waterproof (**IP67**) and strong

Quickly Charges: 15 min charging time

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