



Optima Battery NSN List							
The only battery with Warfighter proven Spiralcell Technology!							
Model #	Part #	Group size	NSN	CCA	Ah Capacity	Terminals	Dimensions (Lx Wx H inches)
Yellow Top - DUAL PURPOSE Deep Cycle & Engine Start Batteries							
D51	8071-167	51	6140-01-523-6288	450	38	Auto post	9.3x 5x 8.9
D51R	8073-167	51R	6140-01-529-7226	450	38		9.3x 5x 8.9
D35	8040-218	35		620	48		9.4x 6.8x 7.7
D75/25	8042-218	75/25		620	48	Dual Auto & side GMC	9.4x 6.8x 7.75
D34	8012-021	34	6140-01-450-0141	750	55	Auto post	10x 6.9x 7.9
D34/78	8014-045	34/78	6140-01-441-4272	750	55	Dual Auto & side GMC	10x 6.95x 7.9
D27F	8037-127	27F	6140-01-600-5785	830	66	Auto post	12.2x 6.75x 8.6
D31T	8050-160	31T	6140-01-457-5469	900	75	3/8" thread stud	12.8x 6.6x 9.4
D31A	8051-160	31A	6140-01-502-4973	900	75	Auto post	12.8x 6.6x 9.4
DH5	7047-147	47		700	64		9.5 x 6.9 x 7.5
DH6 (48)	7048-148	48		800	72		10.95x 6.9x 7.5
DH7 (94R)	7094-194	94R		880	80		12.4x 6.9x 7.5
Blue Top - DUAL PURPOSE Deep Cycle & Engine Start Batteries							
D34M	8016-103	34	6140-01-475-9355	750	55	Dual, automotive & 5/16" threaded stud	10x 6.9x 7.5
D27M	8027-127	27	6140-01-589-0622	800	66		12.2x 6.8x 8.75
D31M	8052-161	31M	6140-01-502-4405	900	75		12.8x 6.6x 9.4
34M	8006-006	34	6140-01-526-2605	800	50		10x 6.9x 7.5
Red Top - ENGINE START Batteries							
75/25	8022-091	75/25	6140-01-475-9361	720	44	Dual Auto & side GMC	9.4x 6.8x 7.75
25	8025-160	25		720	44	Auto post	9.4x 6.8x 7.7
35	8020-164	35	6140-01-598-4013	720	44		9.4x 6.8x 7.7
34	8002-002	34	6140-01-378-8232	800	50		10x 6.9x 7.9
34/78	8004-003	34/78	6140-01-374-2243	800	50	Dual Auto & side GMC	10x 6.95x 7.9
34R	8003-151	34R	6140-01-475-9357	800	50	Auto post	10.1x 6.9x 7.9
6V	8010-044	NA	6140-01-475-9414	850	50		10x 3.6x 8.1
OPTIMA 6T INSTALLATION ADAPTER							
6TAGM	242-0038		6160-01-453-0858	6T Adapter tray for installing Optima group 34 size batteries. (verify vehicle reserve capacity requirement)			
TELEDYNE 3kW GENERATOR BATTERY							
7243-16A 3kW Generator (831A & 832A)			6140-01-610-6102	300	16	Auto post	7.3x7.5x6.1



Optima Military/Gov discount !
(CONUS shipping only)

Send a request from your .mil email address to: info@milbatteries.com



Spiralcell Technology
for superior vibration
resistance and
extended life

**Pure Lead/Tin
Plates,
AGM (not Gel)**

**Absorbent
Glass-Mat
Separators** holds
electrolyte like a
sponge to eliminate
acid spilling



**Solid Cast Cell
Connections** for
increased durability and
maximum plate height

99.99% Pure Lead
Spiralcell design allows for lead
to be used in its purest form

**Tightly Compressed
Cells** for added vibration
resistance

On receipt of a new battery

Your battery may have been stored for a long time. **If voltage is less than 12.65 volts recharge before installation.**

Stored or infrequently used equipment:

Electronics and high temperatures accelerate battery discharge on equipment. If possible, check battery voltage every 3 to 6 months. Recharge when volts drop below 12.65 (25.3V volts for a 24V set).

NOTE: A maintenance charger (Solar or AC power) can keep your batteries fully charged, & ready to work. They also extend battery life. We have a list of solutions with NSNs.

Optima batteries can often be recovered from deep-discharge and sulfation conditions that kill flat plate batteries. Contact us for info and charger recommendations.



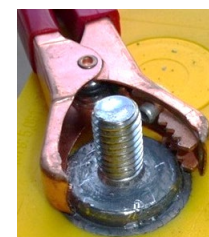
Maintenance

- 1. Inspect:** Check battery terminals, sides, top, & bottom for damage, cracks, etc. Do not charge a damaged battery.
- 2. Voltage:** Recharge if voltage is < 12.65 volts
- 3. Charging:** Use a charger designed for sealed, AGM batteries. Voltage should peak and then hold between 14.4 to 15.0 VDC. Charge for 1 hour after current drops below 3 amps.
- 4. Check voltage** after re-charge. Let battery rest for at least 8 hours. A fully charged Optima will have an open circuit voltage of:
Red Top \geq 12.85 volts, Yellow Top \geq 13.0 volts
- 5. Test:** Use your organizations approved tester.

Load Test: Discharge at approximately $\frac{1}{2}$ battery rated CCA for 15 seconds. On a good battery, volts at 15 seconds should be \geq 9.6 V.

Conductance: Digital conductance type testers calculate theoretical CCA & health readings. On a good Optima the CCA value is typically 10% to 20% higher than the battery's actual CCA label rating. We always recommend you charge before any testing.

***** NEVER CONNECT A DIGITAL CONDUCTANCE TESTER TO THREADED STUD TERMINALS! DOING SO WILL RESULT IN A BAD TEST RESULT (usually a very low CCA reading). CONNECT TO THE ROUND LEAD PAD AT THE BASE OF THE STUD, OR USE SCREW-ON LEAD TERMINAL ADAPTERS.**



Power accessories



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DC/AC Inverter
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