



Battery Model: **D31A**
Part Number: **8051-160** (unboxed, pallet shipment)
9051-160 (individually boxed)
Nominal Voltage: 12 volts
NSN: 6140-01-502-4973
Description: High power, sealed lead acid, deep cycle & engine

Physical Characteristics:

Plate Design: High purity lead-tin alloy. Wound cell configuration utilizing propriety *SPIRALCELL TECHNOLOGY*.[®]
Electrolyte: Sulfuric acid, H₂SO₄. Specific gravity: 1.342
Case: Polypropylene
Color: Case: Light Gray Cover: "OPTIMA" Yellow
Group Size: BCI: 31

	Standard	Metric
Length:	12.81"	325.4mm
Width:	6.5"	165.1mm
Height:	9.375	238.13 mm height at the top of the terminals
Minimum Weight:	59.8 lb.	26.91 kg

Terminal Configuration: BCI/SAE automotive

Performance Data:

Open Circuit Voltage (fully charged): 13.1 volts
Internal Resistance (fully charged): .0025 ohms
Capacity: 75 Ah (C/20)
Reserve Capacity: BCI: 155 minutes
 (25 amp discharge, 80°F (26.7°C), to 10.5 volts cut off)

Power:

CCA (BCI 0°F): 900 amps
MCA (BCI 32°F): 1125 amps

Cycle Life:

Cycle Life – Deep Cycle (BCI) ~350 cycles
 J240 Life Cycles (BCI): 10,000 – 12,000 cycles
 EV, C/2 discharge to 10.5 volts, retaining 80% capacity: >220 cycles