



**Battery Model:** D51  
**Part Number:** 8071-167  
**Nominal Voltage:** 12 volts  
**NSN:** 6140 01 523 6288  
**Description:** High power, dual purpose engine start and deep cycle, sealed lead acid battery



**Battery Model:** D51R  
**Part Number:** 8073-167  
**Nominal Voltage:** 12 volts  
**NS** 6140 01 529 7226  
**Description:** High power, dual purpose engine start and deep cycle, sealed lead acid battery

“R” means that the terminal polarity is reversed.

The Optima model D51R is approved by US Military, PM-MEP for the 5kW tactical generator (MEP 802A & 812A).

It can also be used in place of the military 2HN flooded battery in many applications.

### Physical Characteristics:

**Plate Design:** High purity lead-tin alloy. Wound cell configuration utilizing proprietary *SPIRALCELL*® technology.  
**Electrolyte:** Sulfuric acid, H<sub>2</sub>SO<sub>4</sub>  
**Case:** Polypropylene  
**Color:** Case: Light Gray  
 Cover: “OPTIMA” Yellow  
**Group Size:** BCI: 51

	Standard	Metric
<b>Length:</b>	9.272”	235.51 mm
<b>Width:</b>	5.024”	127.61 mm
<b>Height:</b>	8.885”	225.68 mm (Height at the top of terminals)
<b>Weight:</b>	26.0 lb	11.8 kg

Terminal Configuration: SAE / BCI automotive.

### Performance Data:

**Open Circuit Voltage (Fully charged):** 13.1 volts  
**Internal Resistance (Fully charged):** .0046 ohms  
**Capacity:** 38 Ah (C/20)  
**Reserve Capacity:** BCI: 66 minutes  
 (25 amp discharge, 80°F (26.7°C), to 10.5 volts cut-off)

### Power:

**CCA (BCI 0°F):** 450 amps  
**MCA (BCI 32°F):** 575 amps

**MILITARY CUSTOMERS & OEMs:**

Please contact us for assistance or info regarding alternator charger settings, shop charging, etc.