



OPD51

12V 450CCA YELLOW TOP DEEP CYCLE AGM BATTERY

Battery Model: D51

Part Number: 8071-176

Nominal Voltage: 12 volts

NSN: 6140 01 523 6288

Description: High power, dual purpose engine start and deep cycle, sealed lead acid battery

Assembly Layout: LHP



OPD51R

12V 450CCA YELLOW TOP DEEP CYCLE AGM BATTERY

Battery Model: D51R

Part Number: 8073-176

Nominal Voltage: 12 volts

NSN: Number applied for, product currently available

Description: High power, dual purpose engine start and deep cycle, sealed lead acid battery

Assembly Layout: RHP

Features:

- Deep-cycle and cranking power
- Up to 3X longer life
- 15 times more vibration-resistant
- Virtually spill-proof
- Mountable in virtually any position
- Maintenance-free
- Faster recharging
- Optimal starting power
- 300+ discharge/recharge cycles
- Patented Spiralcell Technology®

Physical Characteristics:

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

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

Terminal Configuration: SAE / BCI automotive.



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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

Recommended Charging:

The following charging methods are recommended to ensure a long battery life: (Always use a voltage regulated charger with voltage limits set as described below.)

Model: D51 and D51R

These batteries are designed for starting and deep cycle applications and for use in vehicles with large accessory loads.

Recommended Charging Information:

Alternator:	13.65 to 15.0 volts
Battery Charger (Constant Voltage):	13.8 to 15.0 volts; 10 amps maximum; 6-12 hours approximate
Float Charge:	13.2 to 13.8 volts; 1 amp maximum; (indefinite time at lower voltages)
Rapid Recharge:	Maximum voltage 15.6 volts. No current limit as long as battery temperature remains below 125°F (51.7°C). Charge until current drops below 1 amp.
(Constant voltage charger)	
Cyclic or Series String Applications:	14.7 volts. No current limit as long as battery temperature remains below 125°F (51.7°C). When current falls below 1 amp, finish with 2 amp constant current for 1 hour.
	All limits must be strictly adhered to.

Always wear safety glasses when working with batteries.

Always use a voltage regulated battery charger with limits set to the above ratings. Overcharging can cause the safety valves to open and battery gases to escape, causing premature end of life. These gases are flammable! You cannot replace water in sealed batteries that have been overcharged. Any battery that becomes very hot while charging should be disconnected immediately.

Not fully charging a battery can result in poor performance and a reduction in capacity.

