



OPTIMA Red 78

Specifications

OPTIMA® REDTOP® 78 Ultra high-performance SPIRALCELL TECHNOLOGY® AGM (absorbent glass mat) battery with reliable cranking power for your auto, car or truck and twice the life. The OPTIMA® REDTOP® will outperform and outlast traditional batteries in demanding cranking/starting applications. The ultimate high-CCA starting battery for vehicles that have alternators capable of keeping up with all electrical loads.

If you have demanding electrical accessory loads such as winches, audio systems, and other devices, take a look at the YELLOWTOP® product line.

The OPTIMA® model number for this battery is 78. If you are replacing an OPTIMA® battery you already have, this model is the same as batteries marked 8078-109, 9078-109, 178289-7878, RED78, SC78S, or N9978RED.

Includes applicable installation and/or height adapters for this battery.

Battery Model:	78
Part Number:	8078-109
NSN:	Number applied for, product currently available
UPC Code:	8 11405 00165 9

Performance Data	
Cold Cranking Amps:	800
Cranking Amps:	1000
Nominal Voltage:	12 volts
Open Circuit Voltage (fully charged):	12.8 volts
Internal Resistance (fully charged):	.0030 ohms
Capacity:	50 Ah (C/20)
Reserve Capacity:	BCI: 100 minutes (25 amp discharge, 80°F (26.7°C), to 10.5 volts cut-off)

Physical Characteristics

Plate Design:	High purity lead-tin alloy. Wound cell configuration utilizing proprietary SPIRALCELL TECHNOLOGY®.
Electrolyte:	Sulfuric acid, H ₂ SO ₄
Case:	Polypropylene
Case Color:	Dark Gray
Cover Color:	“OPTIMA” Red
Group Size:	BCI: 78
Post Type:	Side Terminal
Weight:	39.5 lb
Length:	10.06 in
Width:	7.31 in
Height:	7.25 in

Power

CCA (BCI 0°F):	800 amps
MCA (BCI 32°F):	1000 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.)

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These batteries are designed for engine starting applications. They are not recommended or warranted for use in deep cycle applications.

Recommended Charging Information

Alternator:	13.3 to 15.0 volts
Battery Charger:	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 (Constant voltage charger):	Maximum voltage 15.6 volts. No current limit as long as battery (Constant voltage charger) temperature remains below 125°F (51.7°C). Charge until current drops below 1 amp. – All limits must be strictly adhered to.