



OPTIMA Yellow 34/78

Specifications

OPTIMA® YELLOWTOP® D34/78 Ultra high-performance SPIRALCELL TECHNOLOGY® AGM (absorbent glass mat) dual-purpose deep-cycle and starting battery. OPTIMA® YELLOWTOP® batteries have three times the cycling capability (rechargeability) with ultimate cranking power for your auto, car or truck to outperform traditional batteries. Perfect for powering heavy electrical loads, including winches, audio systems, inverters, and other demanding vehicle accessories and electronics. Lower internal resistance provides more efficient power output and faster recharges.

The OPTIMA® model number for this battery is D34/78. If you are replacing an OPTIMA® battery you already have, this model is the same as batteries marked 8014-045, 9014-045, 27991, D34-78, D34/78-950, YEL34/78, 989237, SC34DU, or N9934/78YEL.

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

Battery Model:	D34/78
Part Number:	8014-045
NSN:	6140 01 457 4341
UPC Code:	8 11405 00045 4

Performance Data	
Cold Cranking Amps:	750
Cranking Amps:	870
Nominal Voltage:	12 volts
Open Circuit Voltage (fully charged):	13.1 volts
Internal Resistance (fully charged):	0.0028 ohms
Capacity:	55 Ah (C/20)
Reserve Capacity:	BCI: 120 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:	Light Gray
Cover Color:	“OPTIMA“ Yellow
Group Size:	BCI: 34
Post Type:	Dual SAE/GM
Weight:	43.5 lb
Length:	10.06 in
Width:	6.94 in
Height:	7.88 in

Power

CCA (BCI 0°F):	750 amps
MCA (BCI 32°F):	870 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: D34/78

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

Recommended Charging Information

Alternator:	13.65 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 temperature remains below 125°F (51.7°C). Charge until current drops below 1 amp.
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.