



OPTIMA Blue 27M

Specifications

OPTIMA® BLUETOP® D27M Ultra high-performance SPIRALCELL TECHNOLOGY® AGM (absorbent glass mat) dual-purpose battery for marine and RV. BLUETOP® has three times the cycling capability (rechargeability) with ultimate cranking power for your boat or RV in a maintenance-free package. Perfect for multiple high-demand accessories and trolling motors with 15 times the vibration resistance and lighter weight. Lower internal resistance provides more efficient power output and faster recharges.

The OPTIMA® model number for this battery is D27M. If you are replacing an OPTIMA® battery you already have, this model is the same as batteries marked 8027-127, 9027-127, BLUES27M, SC27DM, or N99D27MBLUE.

Please Download the Marine Application Guide above for further information on specific marine application.

Battery Model:	D27M
Part Number:	8027-127
NSN:	Number applied for, product currently available
UPC Code:	8 11405 00166 6

Performance Data	
Cold Cranking Amps:	800
Cranking Amps:	1000
Nominal Voltage:	12 volts
Open Circuit Voltage (fully charged):	13.1 volts
Internal Resistance (fully charged):	0.0025 ohms
Capacity:	66 Ah (C/20)
Reserve Capacity:	BCI: 140 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“ Blue
Group Size:	BCI: 27
Post Type:	Dual SAE & 5/16 Stainless Stud
Weight:	53.8 lb
Length:	12.19
Width:	6.81
Height:	8.75

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.)

Model: D27M

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:	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 3 amp constant current for 1 hour. All limits must be strictly adhered to.