DUAL PURPOSE
31M180-DP
12.8V / PbEq 1000CCA / 180AH / 2304WH



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UNIT SPECIFICATIONS

Nominal Voltage	12.8V
Nominal Capacity	180Ah
Stored Energy	2304Wh
Protection Level	IP67
Standard Discharge Current	36A
Continous Discharge Current	180A
Discharge Cut off Voltage	10V
Charge Cut off Voltage	14.4V
Standard Charge Current	10-36A
Max Continous Charge Current	90A
Self Dicharge	1-3% Per Month
Cycle Life	>3000 times @ 100% DOD
	>6000 times @ 80% DOD

TEMPERATURE SPECIFICATIONS

Operating Temperature	
Charging Temperature	-4F-131F (-20C-55C)
Discharging Temperature	-4F-140F (-20C-60C)
Storage Temperature	
3 Months	23F-113F (-5C-45C)
1 Year	23F-113F (-5C-45C)

SLEEP SPECIFICATIONS

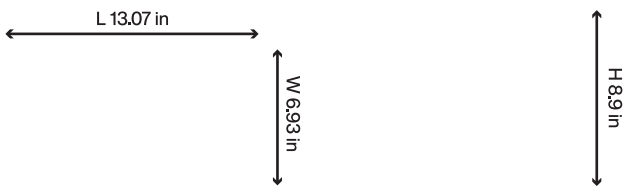
Sleep Timer	Will not enter sleep mode
	until it reaches 10-20%
	or is turned off manually
Heating	Enabled
Bluetooth	Enabled
NMEA 2000	Compatible

AFTERMARKET LITHIUM BATTERY REQUIREMENTS

- ✔ Chemistry: Lithium Iron Phosphate (LifeP04) is designed for marine cranking use.
  - 31M180-DP: Lithium Iron Phosphate
- ✔ Minimum Cranking Amps: 800 Amps for 8 seconds minimum at 20 °F (-7 °C)
  - 31M180-DP: 800 Amps for 8 Seconds, 1000 Amps for 5 seconds
- ✔ Peak Charge Acceptance: 165 Amps I 20–130 °F (-7–55 °C)
  - 31M180-DP: 1.65C for 1 minute
- ✔ Max Charge/Alternator Size: 150 Amps I 20–130 °F (-7–55 °C)
  - 31M180-DP: 200 Amp Charge Acceptance
- ✔ Max Charge Voltage/ Alternator Output: 14.8 V
  - 31M180-DP: 14.8v +/-.02 volts
- ✔ Reserve Capacity: (RC25 Amps @ 80 °F) 135 minutes
  - 31M180-DP: 309 Minutes Before ProBoost Safety Cut, 344 min @ LVP
- ✔ Ingress Protection (IP) Rating: IP67 or greater
  - 31M180-DP: IP67

MEASUREMENTS

Weight 41.89 lbs



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PRO-GUIDE® LITHIUM BATTERY SPECIFICATIONS



PRO-GUIDE Part #	Industry Group Size	Nom V	AH	Rated WH	PbEq CCA	Charge Amp		Terminal Type	Gross Wt		Dimension (mm)			Dimension (in)		
						STD	MAX		kg	lb	L	W	H	L	W	H
PRO-GUIDE LITHIUM DUAL PURPOSE																
31M180-DP	Group 31	12.8	180	2304	1000	10	90	3 Internal Tread (M8)	19	41.89	332	176	226	13.07	6.93	8.9
31M235-DP	Group 31 Tall	12.8	235	3008	1000	10	117.5	3 Internal Tread (M8)	24	52.91	332	176	275	13.07	6.93	10.83
PRO-GUIDE LITHIUM DEEP CYCLE																
16VM160	Group 31 Tall	16	160	2560	N/A	10	80	3 Internal Tread (M8)	20	44.09	332	176	275	13.07	6.93	10.83
24VM90	Group 31	25.6	90	2304	N/A	10	45	3 Internal Tread (M8)	19	41.89	332	176	226	13.07	6.93	8.9
24VM115	Group 31 Tall	25.6	115	2944	N/A	10	57.5	3 Internal Tread (M8)	24	52.91	332	176	275	13.07	6.93	10.83
36VM60	Group 31	38.4	60	2304	N/A	10	30	3 Internal Tread (M8)	20	44.09	332	176	226	13.07	6.93	8.9
36VM75	Group 31 Tall	38.4	75	2880	N/A	10	37.5	3 Internal Tread (M8)	23	50.71	332	176	275	13.07	6.93	10.83

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