

MOTIVE 31XCS

MODEL 31XCS

VOLTAGE 12

CAPACITY 185 minutes @ 25A

MATERIAL Polypropylene

BATTERY Deep-Cycle Flooded/Wet Lead-Acid Battery

COLOR Black

WATERING No Watering Required



12 VOLT

PHYSICAL SPECIFICATIONS

BCI	MODEL NAME	VOLTAGE	CELL(S)	TERMINAL TYPE ^G	DIMENSIONS ° INCHES (mm)		WEIGHT HLBS. (kg)	
21	31XCS	10	6	11	LENGTH	WIDTH	HEIGHT F	E0 E (06 E)
31	31703	12	0	11	12.95 (329)	6.81 (173)	9.29 (236)	58.5 (26.5)

ELECTRICAL SPECIFICATIONS

CRANKING PERFORMANCE		CAPACITY A MINUTES		CAPACITY ^B AMP-HOURS (Ah)			ENERGY (kWh)	INTERNAL RESISTANCE (mΩ)	SHORT CIRCUIT CURRENT (amps)	
C.C.A. ^D @ 0°F (-18°C)	C.A. ^E @ 32°F (0°C)	@ 25 Amps	@ 75 Amps	5-Hr	10-Hr	20-Hr	100-Hr	100-Hr		
700	860	185	_	_	_	_	_	_	_	_

CHARGING INSTRUCTIONS

CHARGER VOLTAGE SETTINGS (AT 77°F/25°C)						
SYSTEM VOLTAGE	12V	24V	36V	48V		
Bulk Charge	14.4	28.8	43.2	57.6		
Float Charge	13.5	27.0	40.5	54.0		
Equalize Charge	16.2	32.4	48.6	64.8		
Alternator Charge	14.2	28.4	42.6	56.8		

Do not install or charge batteries in a sealed or non-ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.

CHARGING TEMPERATURE COMPENSATION

ADD	SUBTRACT
0.005 volt per cell for every 1°C below 25°C 0.0028 volt per cell for every 1°F below 77°F	0.005 volt per cell for every 1°C above 25°C 0.0028 volt per cell for every 1°F above 77°F

OPERATIONAL DATA

OPERATING TEMPERATURE	SELF DISCHARGE
-40°F to 140°F (-40°C to +60°C). At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	Less than 2% per month depending on storage conditions

RECYCLE RESPONSIBLY



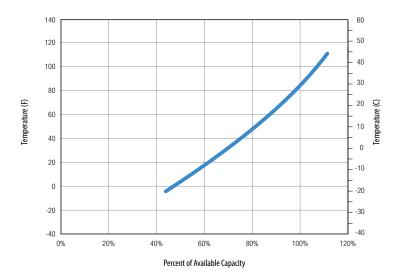




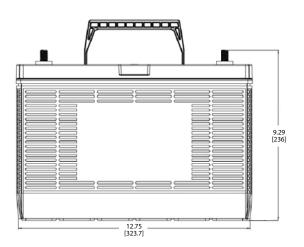
STATE OF CHARGE MEASURE OF OPEN-CIRCUIT VOLTAGE

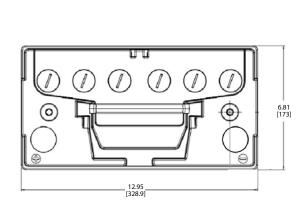
PERCENTAGE CHARGE	SPECIFIC GRAVITY	CELL	12 VOLT
100	<u> </u>	2.13	12.75
90	_	2.11	12.63
80	_	2.08	12.50
70	_	2.06	12.37
60	_	2.04	12.24
50	_	2.02	12.10
40	_	2.00	11.97
30	_	1.97	11.82
20	_	1.95	11.68
10	_	1.92	11.53

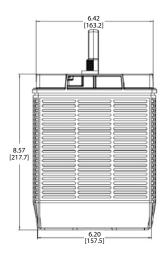
PERCENT CAPACITY VS. TEMPERATURE



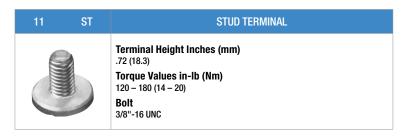
BATTERY DIMENSIONS (shown with ST)







TERMINAL CONFIGURATIONS⁶



- The number of minutes a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.
- 17.5 vicen. Capacities are beseen the paper performance.

 The amount of amp-hours (Alf) a battery can deliver when discharged at a constant rate at 80°F (27°C) and maintain a voltage above 1.75 V/cell. Capacities are based on peak performance.

 Dimensions may vary depending on type of handle or terminal. Batteries should be mounted with 0.5 inches (12.7 mm) spacing minimum.

 C.C.A. (Cold Cranking Amps) the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 0°F (-18°C) at a voltage above 1.2 V/cell.
- C.A. (Cranking Amps) the discharge load in amperes which a new, fully charged battery can maintain for 30 seconds at 32°F (0°C) at a voltage above 1.2 V/cell. This is sometimes referred to as marine cranking amps @ 32°F or M.C.A. @ 32°F.
- Height taken from bottom of the battery to the highest point on the battery. Heights may vary depending on type of terminal. Terminal images are representative only.

 Weight may vary.





Designed in compliance with applicable BCI, DIN, BS and IEC standards. Tested in compliance to BCI and IEC standards.

