



# OGRE

energy

# 110 AH BATTERY



To create the best battery for the oilfield, we did our research. We started with the application, and designed our products to fit it. OGRE deep cycle batteries grew out of the need for a robust, reliable battery that could withstand the power drain and harsh environment of the oilfield.

OGRE's quality has been proven for a decade in remote locations, giving customers peace of mind with reliable power=less site visits and more constant production.

## 110 AH BATTERY SPECIFICATIONS MODEL: OE12110, ORDER#: 06233

### BATTERY CONSTRUCTION

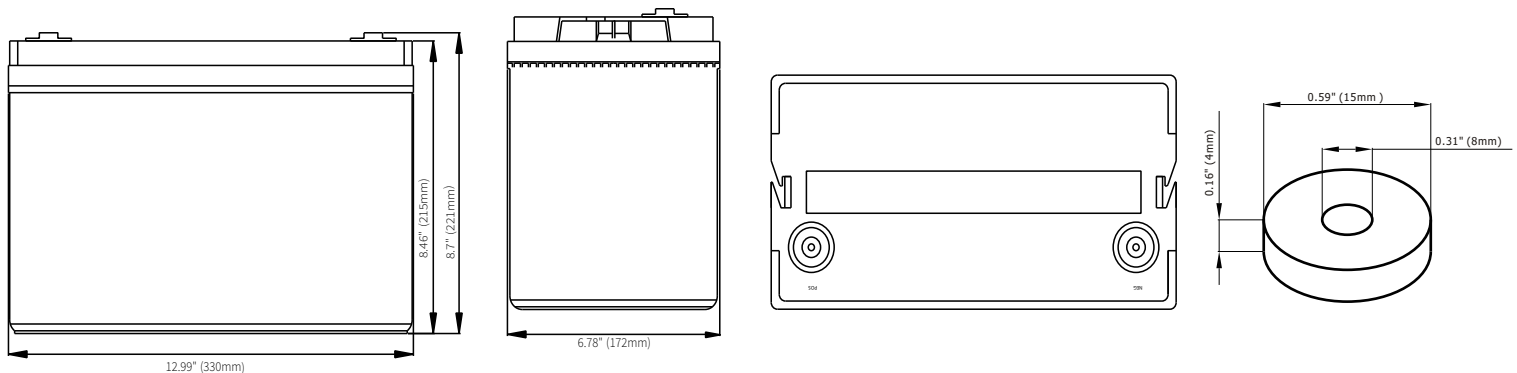
Positive	Lead Dioxide
Negative	Lead
Container & Cover	ABS
Safety Valve	EPDR
Terminal	Copper
Separator	Fiberglass
Electrolyte	Sulfuric Acid
# of Plates	7+ & 7-
Plate Thickness	+: 2.4 mm, -1.8mm
Lead Acid Content	70% Lead Dioxide

*OGRE's battery offers sealed & maintenance free operation*

### OGRE'S ABSORBENT GLASS MAT (AGM) SAFETY ADVANTAGE:

- AGM will not leak or spill, even if broken. This is not the case for flooded or gel batteries, and since AGM are considered non-hazardous, shipping costs are lower
- Unlike gel batteries, AGM can be charged at a high rate (and on a conventional automotive charger without damage and do not run the risk of damaging the cells
- AGM batteries are not affected by high temperatures, causing premature death in gel batteries, and since there is no liquid in an AGM, the batteries carry very little risk of damage from freezing temperatures
- Recombinant technology ensures almost no water is lost through electrolysis
- Internal resistance is low, so there is very little risk of battery overheating even under heavy charge and discharge currents
- AGM batteries have the lowest self-discharge rates of the three lead-acid types –typically 1%-3% per month
- Can be almost fully recharged (95% +), even after a month of being totally discharged
- Hydrogen emission well below the 4% maximum specified for air shipping and enclosed spaces
- ABS containers and covers (UL94HB, UL94V-0) optional. Safety valve installation for explosion proof standard.

### PHYSICAL SPECIFICATIONS OF BATTERY & TERMINALS



TO ORDER: 800.898.2899 AUTOMATION-X.COM

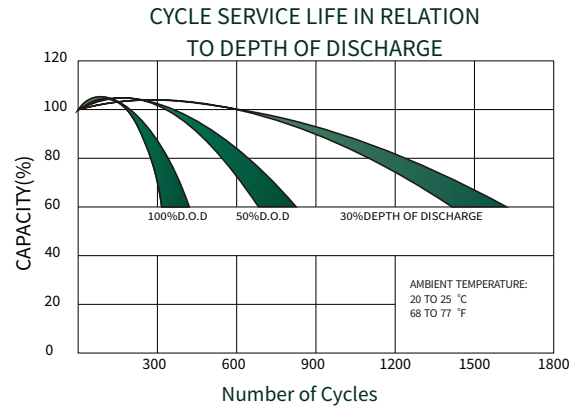
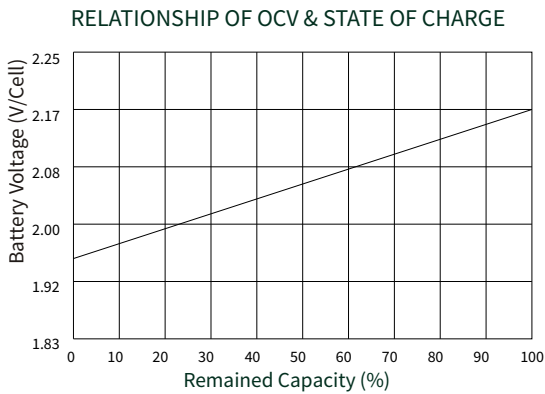
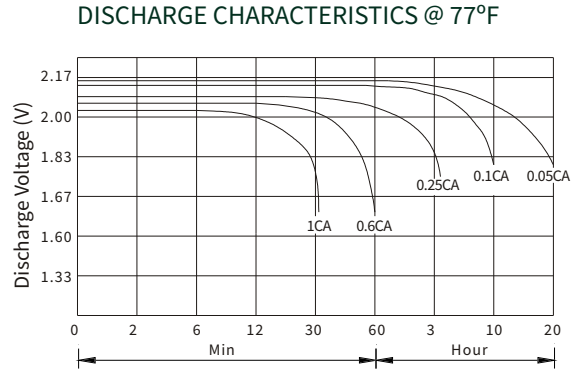
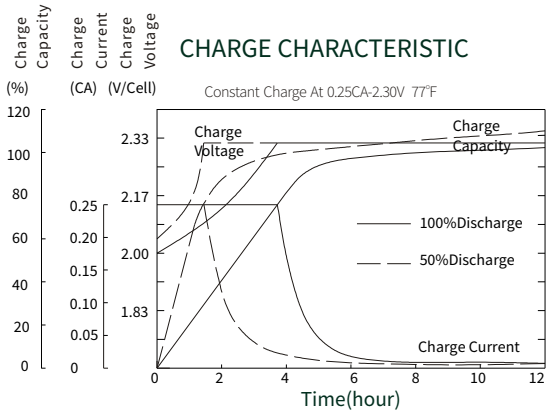
SALES@AUTOMATION-X.COM

*"Since we have switched to the OGRE Batteries we have had a lot less calls on dead batteries. They seem to be lasting longer and holding a better charge. These batteries have saved us a lot of money by the cost of the batteries and by fewer service calls."--Kelly Craig, Lead Measurement Tech, XTO*

# OGRE 110 AH BATTERY CYCLE LIFE @ STANDARD TEST CONDITIONS



DESIGNED CYCLE LIFE	>350 CYCLES @ -0.5CA TO 9.6V			
CAPACITY 77 °F (25 °C)	20 HR(6.1A, 1.75V)	10HR(11A, 1.75V)	5HR(20.4A, 1.75V)	1HR(72A, 1.75V)
	122AH	115AH	102AH	72AH
DIMENSIONS	LENGTH	WIDTH	HEIGHT	TOTAL HEIGHT
	12.99" (330MM)	6.77" (172MM)	8.46"(215MM)	8.7" (221MM)
WEIGHT	71.65 LBS			
INTERNAL RESISTANCE	FULLY CHARGED AT 77°F (25°C): 0.0045 OHM			
SELF DISCHARGE	3% OF CAPACITY DECLINED PER MONTH AT 77°F			
CAPACITY AFFECTED BY TEMP (20HR)	104°F	77°F	32°F	5°F
	102%	100%	85%	65%
CHARGE VOLTAGE @ 77°F	CYCLE USE			FLOAT USE
	14.4-15V(-30MV/°C), MAX. CURRENT: 30A			13.6-13.8V(-20MV/°C)



## CONSTANT CURRENT DISCHARGE RATINGS: AMPERES@ 77°F

F.V./Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	526	327	247	151	86.7	38.1	23.3	12.7	6.85
1.67V	494	310	237	144	85.6	36.6	22.8	12.5	6.61
1.70V	452	299	232	131	83.0	34.2	22.3	12.5	6.50
1.75V	443	290	224	124	79.1	33.0	21.8	12.4	6.33
1.80V	397	277	204	115	74.0	31.7	20.5	12.2	6.16
1.85V	350	264	183	106	69.0	30.6	19.2	12.0	6.03

## CONSTANT POWER DISCHARGE RATINGS: WATTS @ 77°F

F.V./Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	923	591	451	271	156	67.5	39.3	26.0	13.7
1.67V	890	576	445	266	156	65.4	39.1	25.9	13.2
1.70V	838	570	441	249	153	62.5	38.6	25.4	13.0
1.75V	844	568	438	241	150	61.0	38.3	25.1	12.7
1.80V	772	560	406	230	141	59.2	37.1	24.7	12.4
1.85V	700	531	368	215	133	57.4	35.9	24.3	12.2

We bring the best of AGM technology to you in a true deep-cycle battery designed to meet the demanding conditions in oil and gas fields around the globe. Tested by actual field conditions, our batteries have survived -60°F temperatures in the brutal Wyoming winter when other batteries failed.

Customers in Louisiana and Texas will accept no substitute, where temperatures climb to a blistering 100+°F in the summer.