



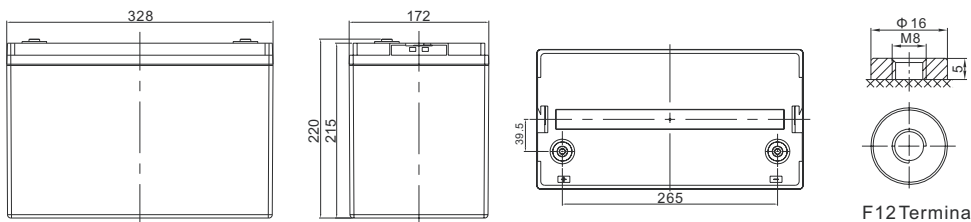
110 AH BATTERY

OGRE OE12110 SPECIFICATIONS

Order#	06233
Voltage	12
Cells	6
Weight	70 lbs (Tolerance $\pm 2\%$)
Internal Resistance	5.0 m Ω
Terminal	F12/F5 (M8)
Maximum Discharge Current	1100A (5 seconds)
Reference Capacity	C*3 84.9AH C5 93.5AH C10 110.0AH C20 117.8AH
Float Charging Voltage	13.6 V~13.8 V @ 77°F Temperature Compensation: -3mV/°Cell
Cycle Use Voltage	14.6 V~14.8 V @ 77°F Temperature Compensation: -4mV/°Cell
Operating Temperature Range	Discharge: 20°~60° Charge: 0°~50° Storage: -20°~60°
Normal Operating Temperature Range	77°F (25°C) $\pm 5^\circ$
Self Discharge	OGRE Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 77°F (after 6 months recharging is recommended). Monthly self-discharge ratio is less than 3% at 77°F.
Container Material	A.B.S. UL94-HB, (UL94-V0 optional)

**MAINTENANCE FREE, SEALED LEAD ACID
AGM, DEEP CYCLE & RECHARGEABLE**

Dimensions



Length	328±1mm (12.9 inches)	
Width	172±1mm (6.77 inches)	
Height	215±1mm (8.46 inches)	
Total Height	220±1mm (8.66 inches)	
Terminal	Value	
M5	6~7	N+m
M6	8~10	N+m
M8	10~12	N+m

Unit: mm

WHY CHOOSE OGRE BATTERIES?

We bring the best of AGM technology to you in a true deep-cycle battery designed to meet the demanding conditions in harsh climates across the U.S. Tested in the field, our batteries have survived -60°F temperatures in brutal Wyoming winters when other batteries failed. Customers in Louisiana and Texas will accept no substitute, where temperatures climb to a blistering 100+°F in the summer.

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*THE C RATING OF A BATTERY IS THE POWER CAPACITY OF A BATTERY. TYPICALLY THIS IS FOLLOWED BY A NUMBER, INDICATING THE NUMBER OF HOURS THIS POWER USE MUST BE SPREAD ACROSS.



110 AH BATTERY

Constant Current Discharge Characteristics : A 77°F (25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	215.6	123.9	71.6	42.4	30.2	23.6	19.7	13.9	11.8	6.12
1.65V	209.1	121.3	70.3	41.6	29.8	23.3	19.5	13.8	11.7	6.07
1.70V	200.7	117.9	68.5	40.7	29.2	22.9	19.2	13.6	11.5	5.99
1.75V	189.3	113.2	66.0	39.4	28.3	22.3	18.7	13.3	11.3	5.89
1.80V	174.0	106.8	62.7	37.6	27.1	21.5	18.1	12.9	11.0	5.75
1.85V	152.8	97.7	57.9	35.0	25.5	20.3	17.2	12.3	10.6	5.53

Constant Power Discharge Characteristics : WPC 77°F (25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	377	225	134	80.3	57.7	45.4	38.0	27.2	23.2	12.1
1.65V	373	224	133	79.5	57.2	45.0	37.8	27.0	23.0	12.0
1.70V	361	219	130	77.9	56.2	44.3	37.2	26.6	22.7	11.8
1.75V	346	212	126	75.8	54.8	43.3	36.4	26.1	22.3	11.6
1.80V	322	202	120	72.7	52.7	41.8	35.4	25.4	21.7	11.4
1.85V	287	187	112	68.0	49.7	39.6	33.7	24.3	20.9	11.0

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

OGRE BATTERIES & SOLAR PANELS IN POWER INSTALLATIONS ACROSS AMERICA



“The OGRE battery is awesome. The price is right and the battery life is excellent in the field. I have OGRE batteries that have been in the field for three plus years and are still running strong. I prefer the OGRE battery over any other brand.”

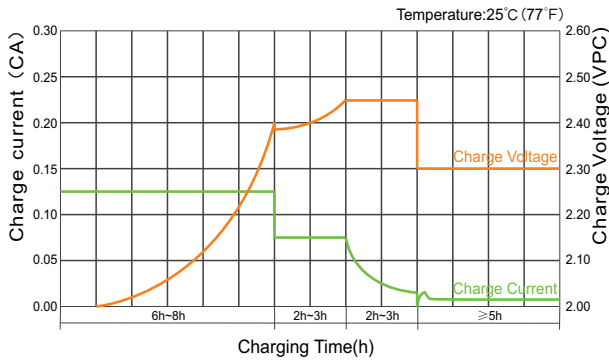
-Leroy Martinez, Senior Automation Technician for EnerVest Operating

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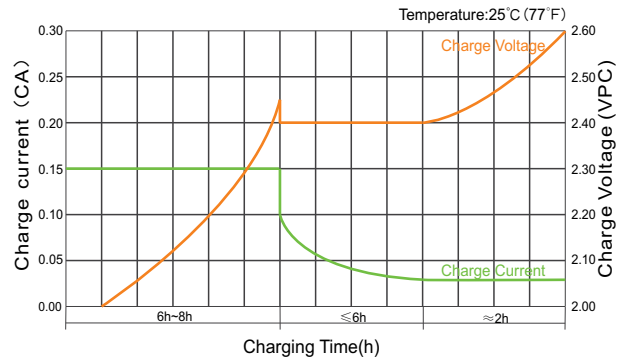


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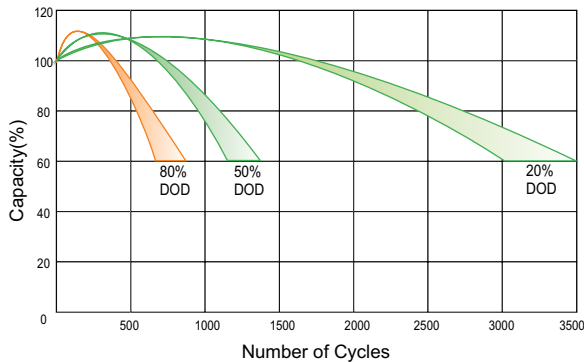
Charge Characteristic Curve for Cycle Use(IIUU)



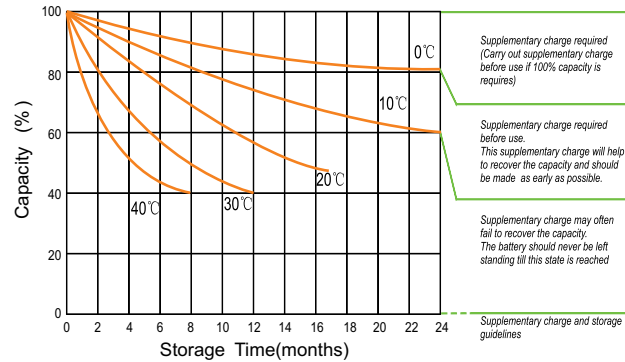
Charge Characteristic Curve For Cycle Use(III)



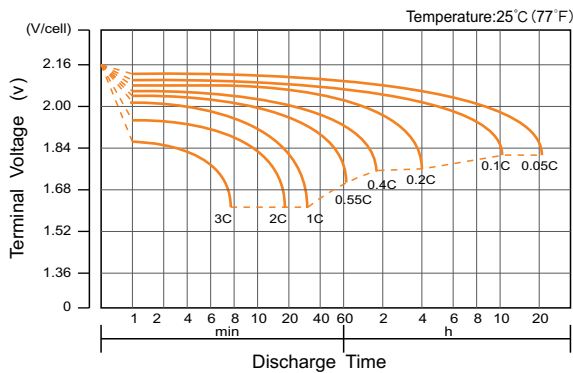
Cycle Life in Relation to Depth of Discharge



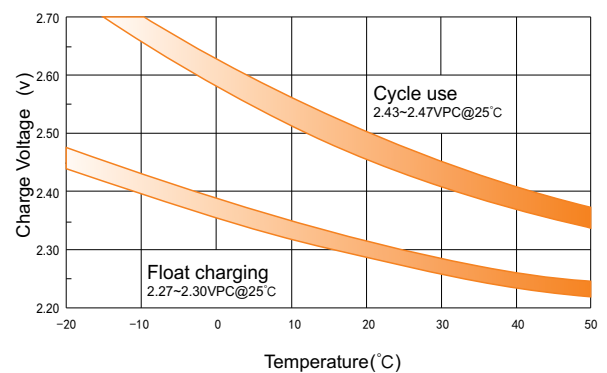
Storage Characteristics



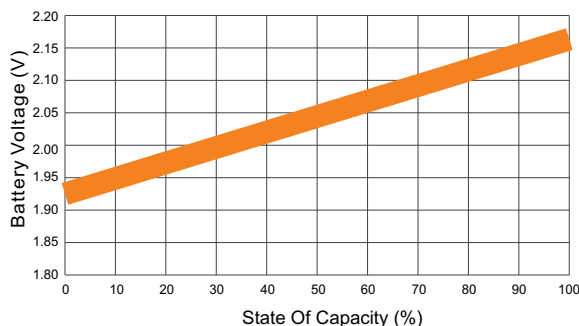
Discharge Characteristics Curve



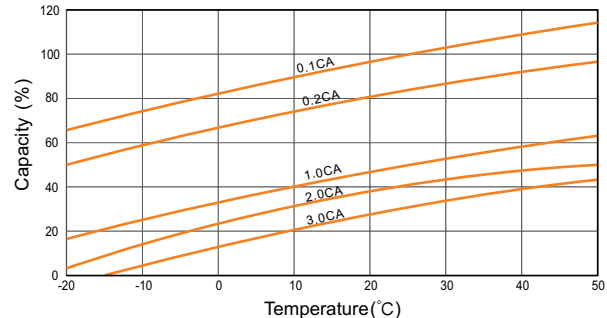
Relationship Between Charging Voltage and Temperature



Relationship of OCV And State of Charge(20°C)



Temperature Effects on Capacity



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