

ERDIL BATTERY



Deep Cycle 12 V 100Ah@20Hr
GEL Batteries 12 V 90Ah@10Hr

Product Specification

Cells	6	
Voltage	12	
Capacity	100 Ah@20hr-rate to 1.75V per cell @ 25 °C	
Weight	Approx. 37 kg	
Normal Operating Temperature Range	25 °C ± 5 °C	
Recommended Maximum Charging - Current Limit	20A	
Equalisation and Cycle Service	14.2 to 14.4VDC / unit Average at 25 °C	
Self Discharge	Erdil GEL batteries can be stored for more than 6 months at 25 °C. Self-discharge rate less than 3% per month at 25 °C. Please charge batteries before using.	
Dimentions	Length (mm)	513
	Width (mm)	189
	Height (mm)	223
Container	Type	A
	Hold Down	No No
	Color	Black or Gray
Cover	Type	SMF
	Ventilation	N/A
	Filter	N/A
Plugs	Type	SMF
	Color	Black
Handle	Type	Rope
	Color	Black

Charging Procedures

Application	Charge Voltage (V)			Max. Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25 °C	14,3	14,2 - 14,4	0,2C
Standby	25 °C	13,5	13,4 - 13,6	0,2C

Discharge Current VS Discharge Voltage

Final Discharge Voltage V / cell	1,75V	1,70V	1,60V
Discharge Current (A)	(A) ≤ 0,2C	0,2C < (A) < 1,0C	(A) ≥ 1,0C

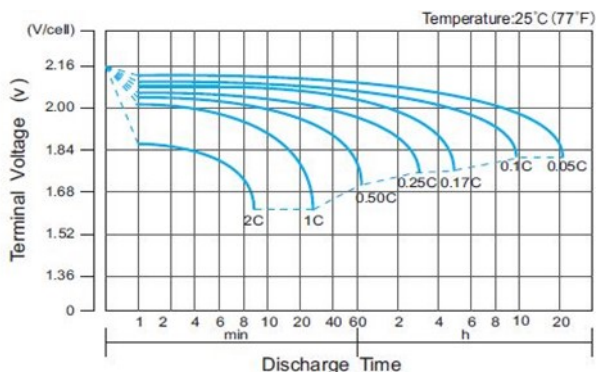
Rated Capacity @ 25 °C rate to 1,75 VDC per cell

20 hrs discharge	100
10 hrs discharge	90
5 hrs discharge	83
Time reserve minutes 25 amps discharge	155

Battery Parameters

Cranking amps @ 25 °C (5 sec)	800
Cycle life at 100% of D.O.D	200
Cycle life at 80% of D.O.D	400
Cycle life at 50% of D.O.D	600
Cycle life at 30% of D.O.D	1200
Internal resistance Approx.	7,1 mΩ

Discharge Characteristics Curve



Charge Characteristic Curve for Cycle Use (IU)

