

TECHNICAL SPECIFICATION ELECTRIC VEHICLE BATTERY

Product Code 125 (12v 130 Ah @ C20)

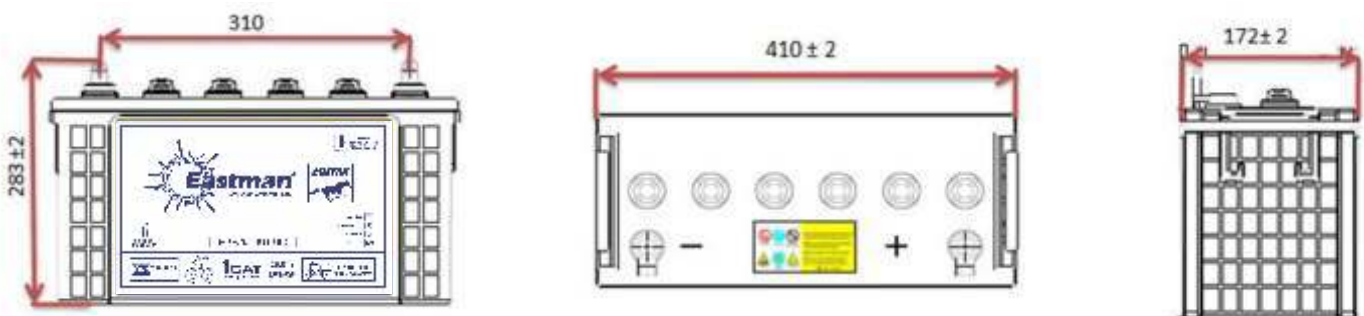
Product Features :

- 1.Higher Run time/ charge in comparison to Competitors in the Tubular Technology segment
- 2.Faster Charging time with specially designed chargers
- 3.Lower cost per Kilometer of running for the users.
- 4.Higher cycle life with advanced tubular technology under deep cycle application.
- 5.I CAT approved .
6. Extreme durability with higher energy throughput
- 7.Minimal electrical resistance

Technical Specifications:

EM 14012ER		Dimensions in mm			Filled Battery Weight(Kg)
Nominal Voltage	Rated Capacity @ 20Hr	Length	Width	Height	
12	140	410	172	283	36.7 ± 2%
12 Months Warranty					

Product Physical Parameters



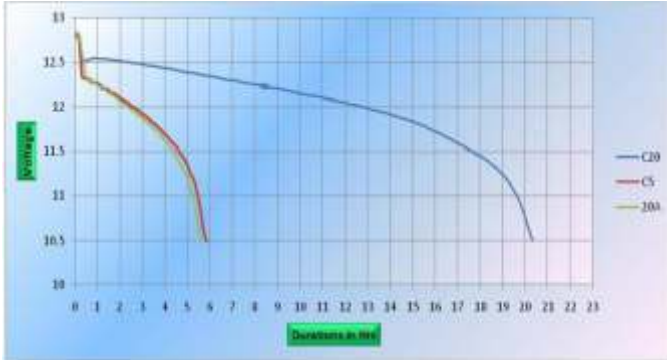
Electrical Parameters: Expected Life

Battery obtained Capacity Test @ 27					
C20 @10.5 V	C10 @10.5 V	C7 @10.5 V	C5 @10.5 V	C3 @10.5 V	C1 @10.5 V
140	130	119	110	93	65
Ah & Wh Efficiency					
Ah Efficiency in %		>92		Wh Efficiency in %	
				>75	
Charging Method (As recommended by Eastman)					
Bulk Phase		Absorption Phase		Equalization/Float	
Charging Voltage per 48 V module					
12 Amps	62 V	8 Amps	64 V	4Amps	53 V
Capacity Loss on Storage:			≤ 4% Per month		

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Technical Specification Electric Vehicle Battery

Discharging Characteristics at various rates @ 27°C



Expected Life @ 27



Charging Characteristics per 48 V Module

EM 100ER

Mode	Charging Current	Voltage
Bulk Phase	12 Amps	62±1
Absorption Phase	9 Amps	64±1
Equalization Phase	2.5 Amps	53±1

EM 120ER

Mode	Charging Current	Voltage
Bulk Phase	18 Amps	62±1
Absorption Phase	9 Amps	64±1
Equalization Phase	2.5 Amps	53±1

EM 14012ER

Mode	Charging Current	Voltage
Bulk Phase	18 Amps	62±1
Absorption Phase	9 Amps	64±1
Equalization Phase	2.5 Amps	53±1