



# EV12-240 (12V 240Ah)

Specifications	
Cells Per Unit	6
Voltage Per Unit	12
Nominal Capacity	240Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 65.0 Kg (Tolerance±3.0%)
Dimensions	Length 522 mm
	Width 240 mm
	Height 219 mm
	Total Height 224 mm
Internal Resistance	Approx. 3.0 mΩ
Terminal	T11
Layout	4
Max. Discharge Current	2400A (5 sec)
Cold Cranking Ampere (CCA)	840A
Max. Charging Current	72.0A
Reference Capacity	C3 186.0AH
	C5 209.5AH
	C10 240.0AH
	C20 254.0AH
Float Charging Voltage	13.6 V~13.8 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	14.6 V~14.8 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temp. Range	Discharge: -20°C~60°C
	Charge: 0°C~50°C
	Storage: -20°C~60°C
Nominal Operating Temp. Range	25°C±5°C
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



## Description and Features

VRLA EV Series is specially designed for frequent discharge in deep cycle applications. EV batteries offer reliable performance in high load situations and have a high cycle durability due to the specially designed active material, strong grids and thick plate construction. The addition of carbon ensures faster full recharging of the battery and longer battery life. This stable and durable battery is completely sealed and maintenance free.

## Features

- Absorbent Glass Mat technology
- Long service life – 50% more cycles than VRLA AGM
- Faster full recharging – quick use of application
- Suitable for (deep) cycle applications

Layout	Terminal	UL certification

Constant Current Discharge Characteristics: A (25°C)										
F.V/Time	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
1.60V	435.4	265.4	148.1	87.5	67.8	53.3	45.3	30.5	25.3	13.2
1.65V	416.3	254.8	143.0	84.7	65.7	51.8	44.1	30.1	25.0	13.0
1.70V	389.9	243.5	138.4	81.9	63.9	50.4	43.0	29.7	24.6	12.9
1.75V	362.8	232.8	133.3	79.0	62.0	49.1	41.9	29.2	24.3	12.7
1.80V	335.0	222.5	128.2	76.2	60.1	47.7	40.8	28.7	24.0	12.6
1.85V	278.0	191.6	115.0	69.8	55.5	44.3	38.1	27.0	22.6	12.0

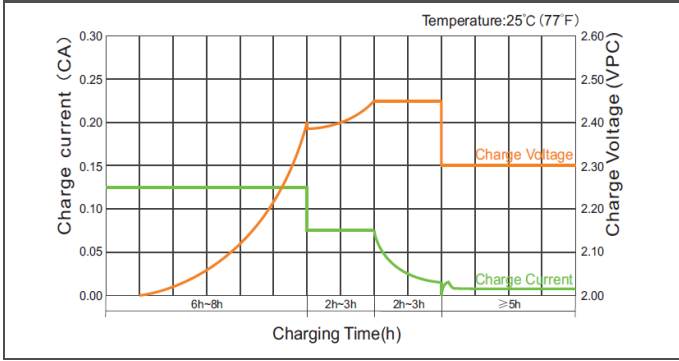
Constant Power Discharge Characteristics: Wpc (25°C)										
F.V/Time	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
1.60V	761.2	482.0	278.3	165.7	129.4	102.2	87.4	59.5	49.8	26.1
1.65V	738.5	467.6	270.3	161.2	126.0	99.8	85.4	58.9	49.2	25.7
1.70V	702.0	451.5	263.2	156.8	123.1	97.5	83.5	58.2	48.6	25.4
1.75V	662.8	435.9	255.1	152.0	119.9	95.4	81.7	57.5	48.0	25.1
1.80V	620.6	420.9	246.7	147.3	116.7	93.0	79.8	56.6	47.4	24.9
1.85V	522.3	366.1	222.7	135.7	108.3	86.7	74.7	53.3	44.7	23.7

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C10 should reach 95% after the first cycle and 100% after the third cycle.

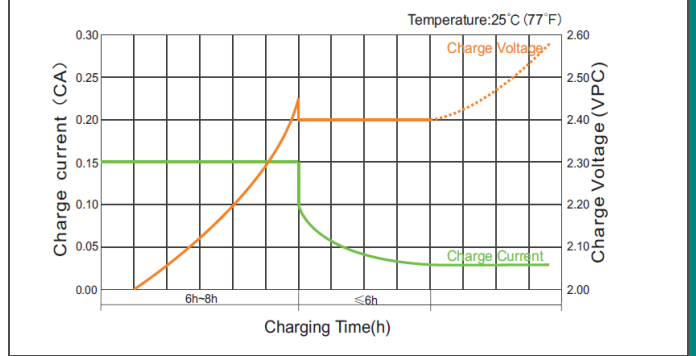


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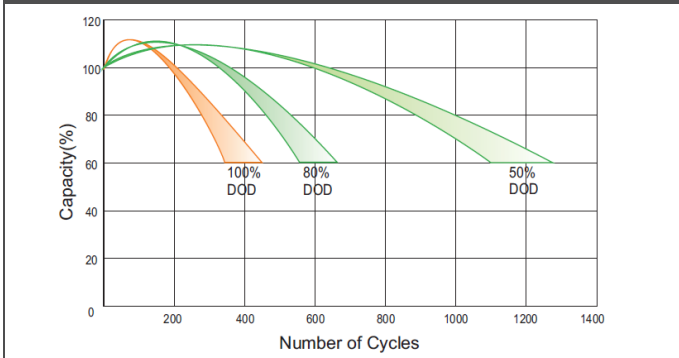
### Charge Characteristic Curve For Cycle Use (IIUU)



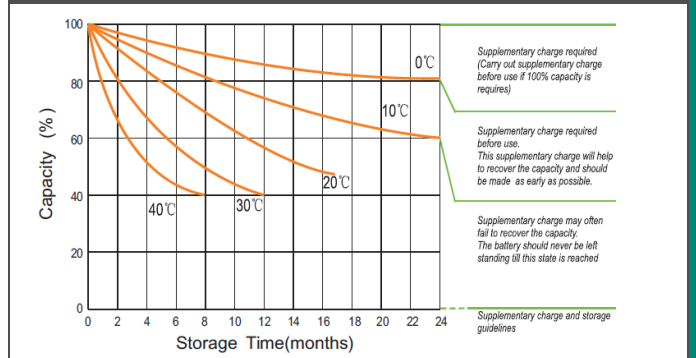
### Charge Characteristic Curve For Cycle Use (IUI)



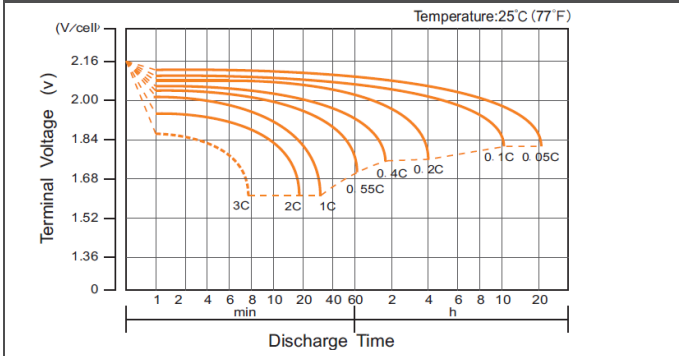
### Cycle Life In Relation To Depth Of Discharge



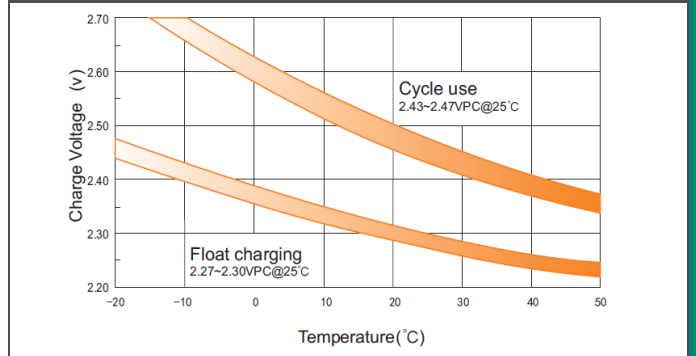
### Storage Characteristics



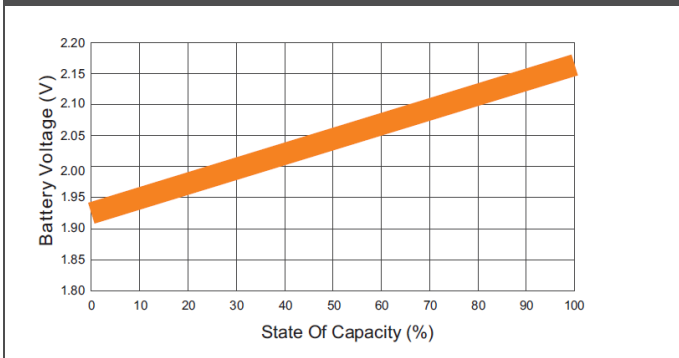
### Discharge Characteristics Curve



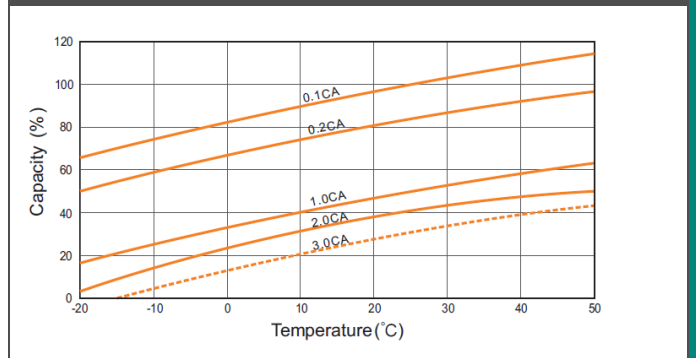
### Relationship Between Charging Voltage And Temperature



### Relationship Of OCV And State Of Charge (20°C)



### Temperature Effects On Capacity



(Note) All above information shall be changed without prior notice, Landport Batteries reserves the right to explain and update the latest information.