

EV SERIES • VRLA AGM BATTERY • ELECTRIC VEHICLE SERIES

EV12-110 (12V 110Ah)

#### Specifications

Cells Per Unit	6						
Voltage Per Unit	12						
Nominal Capacity	110Ah@10hr-rate to 1.80V per cell @25°C						
Weight	Approx. 30.5 Kg (Tolerance±3.0%)						
Dimensions	Length 328 mm Width 172 mm						
Dimensions	Height 215 mm Total Height 220 mm						
Internal Resistance	Approx. 5.5 mΩ						
Terminal	T11						
Layout	1						
Max. Discharge Current	1100A (5 sec)						
Cold Cranking Ampere (CCA)	700A						
Max. Charging Current	33.0A						
Reference Capacity	C3 85.2AH C5 96.0AH C10 110.0AH C20 116.6AH						
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.						

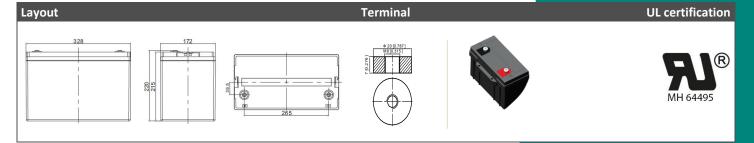


#### **Description and Features**

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



Constant Current Discharge Characteristics: A (25°C)											
F.V/Time	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
1.60V	265.3	206.5	122.9	67.9	40.1	31.1	24.4	20.8	14.0	11.6	6.07
1.65V	250.6	197.4	118.0	65.6	38.8	30.1	23.7	20.2	13.8	11.5	5.97
1.70V	230.8	184.9	112.7	63.4	37.5	29.3	23.1	19.7	13.6	11.3	5.90
1.75V	211.2	172.1	107.8	61.1	36.2	28.4	22.5	19.2	13.4	11.1	5.83
1.80V	191.2	158.9	103.0	58.8	34.9	27.5	21.9	18.7	13.2	11.0	5.77
1.85V	156.3	131.8	88.7	52.7	32.0	25.4	20.3	17.5	12.4	10.4	5.48

Constant Power Discharge Characteristics: Wpc (25°C)											
F.V/Time	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
1.60V	450.9	361.0	223.2	127.6	76.0	59.3	46.9	40.0	27.3	22.8	12.0
1.65V	434.3	350.2	216.5	123.9	73.9	57.7	45.8	39.1	27.0	22.6	11.8
1.70V	407.1	332.9	209.0	120.6	71.9	56.4	44.7	38.3	26.7	22.3	11.7
1.75V	379.4	314.3	201.8	116.9	69.7	55.0	43.7	37.4	26.3	22.0	11.5
1.80V	349.4	294.3	194.9	113.1	67.5	53.5	42.6	36.6	26.0	21.7	11.4
1.85V	290.6	247.7	169.5	102.1	62.2	49.6	39.8	34.2	24.4	20.5	10.9

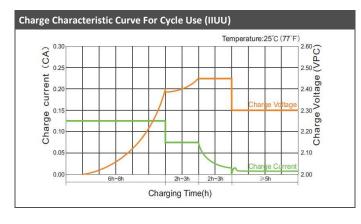
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C10 should reach 95% after the first cycle and 100% after the third cycle.

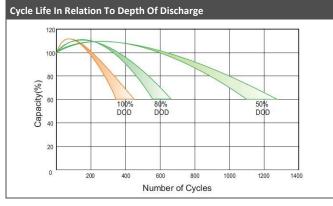
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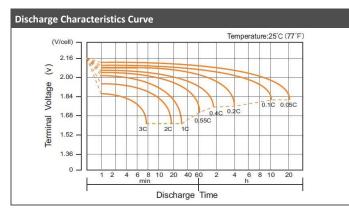
# power on command

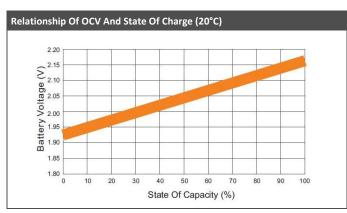
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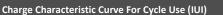




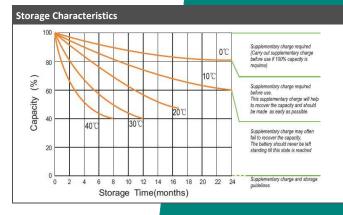




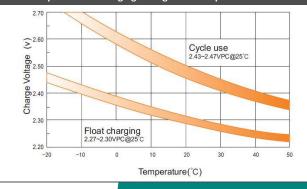
(Note) All above information shall be changed without prior notice, Landport Batteries reserves the right to explain and update the latest information.



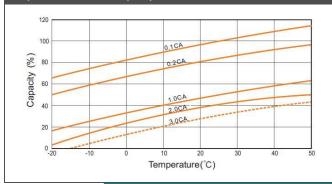




Relationship Between Charging Voltage And Temperature



Temperature Effects On Capacity



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### power on command