

## EV12-180S (12V 180Ah)

Specifications							
Cells Per Unit	6						
Voltage Per Unit	12						
Nominal Capacity	180Ah@10hr-rate to 1.80V per cell @25°C						
Weight	Approx. 52.0 Kg (Tolerance±3.0%)						
Dimensions	Length 483 mm Width 170 mm Height 241 mm Total Height 241 mm						
Internal Resistance	Approx. $4.0 \text{ m}\Omega$						
Terminal	T11						
Layout	1						
Max. Discharge Current	1800A (5 sec)						
Cold Cranking Ampere (CCA)	780A						
Max. Charging Current	54.0A						
Reference Capacity	C3 138.0AH C5 157.0AH C10 180.0AH C20 190.8AH						
Float Charging Voltage	13.6 V $^{\sim}$ 13.8 V @ 25 $^{\circ}$ C Temperature Compensation: -3mV/ $^{\circ}$ 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				
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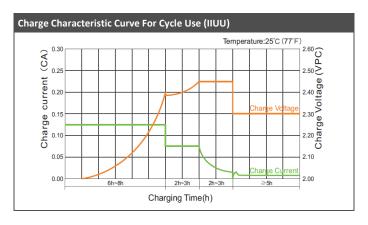
Constant Current Discharge Characteristics: A (25°C)											
F.V/Time	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
1.60V	378.3	307.0	191.1	106.6	64.9	50.3	39.9	34.0	22.8	19.0	9.93
1.65V	357.5	293.5	183.4	103.0	62.9	48.8	38.9	33.1	22.6	18.8	9.78
1.70V	329.1	274.9+	175.3	99.6	60.8	47.4	37.8	32.2	22.2	18.5	9.66
1.75V	301.2	255.8	167.6	96.0	58.7	46.0	36.8	31.4	21.9	18.2	9.54
1.80V	272.7	236.2	160.2	92.3	56.6	44.6	35.8	30.6	21.6	18.0	9.44
1.85V	222.9	196.0	138.0	82.8	51.8	41.2	33.3	28.6	20.2	16.9	8.97

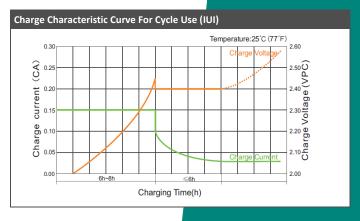
Constant Power Discharge Characteristics: Wpc (25°C)											
F.V/Time	10 Min	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
1.60V	643.0	536.6	347.1	200.4	123.1	96.1	76.7	65.5	44.6	37.3	19.6
1.65V	619.4	520.6	336.7	194.6	119.7	93.5	74.9	64.1	44.2	36.9	19.3
1.70V	580.7	494.9	325.1	189.5	116.4	91.4	73.1	62.6	43.6	36.4	19.1
1.75V	541.1	467.3	313.9	183.7	112.9	89.0	71.5	61.2	43.1	36.0	18.9
1.80V	498.4	437.6	303.0	177.7	109.4	86.6	69.7	59.9	42.5	35.6	18.7
1.85V	414.5	368.2	263.6	160.3	100.8	80.4	65.0	56.0	40.0	33.5	17.8

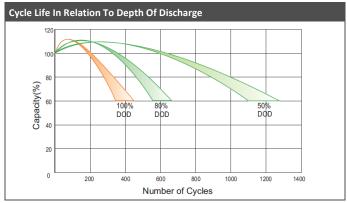
(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values. The battery must be fully charged before the capacity test. The C10 should reach 95% after the first cycle and 100% after the third cycle.

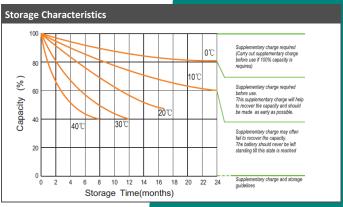


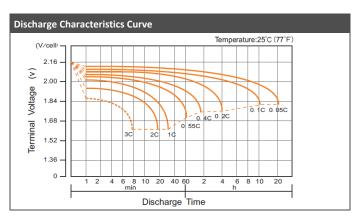
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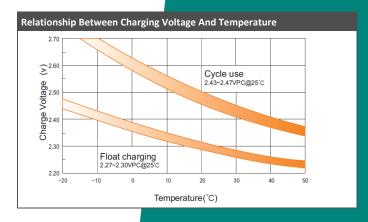


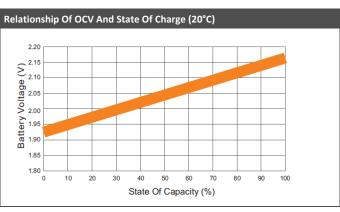


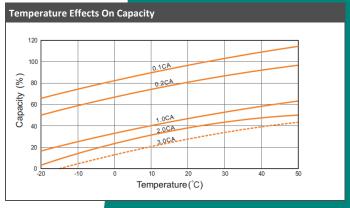












(Note) All above information shall be changed without prior notice, Landport Batteries reserves the right to explain and update the latest information.