



EV12-7.2 (12V 7.2Ah)

Specifications	
Rated Voltage	12
Nominal Capacity	7.2Ah@10hr-rate
Dimensions	Length 151 mm
	Width 65 mm
	Container Height 94 mm Total Height 99 mm
Approx. Weight	Approx 2.50 Kg (5.51 lbs)
Terminal	T1
Layout	3
Container material	ABS
Rated Capacity (25°C)	7.72 AH/0.386A (20hr, 1.80V/cell, 25°C / 77°F)
	7.20 AH/0.72A (10hr, 1.80V/cell, 25°C / 77°F)
	6.31 AH/1.26A (5hr, 1.75V/cell, 25°C / 77°F)
	5.72 AH/1.91A (3hr, 1.75V/cell, 25°C / 77°F)
	46.5 AH/4.65A (1hr, 1.60V/cell, 25°C / 77°F)
Max. Discharge Current	108A (5s)
Internal Resistance	Approx 18.0mΩ
	Discharge: -15°C~50°C
Operating Temp. Range	Charge: 0°C~40°C
	Storage: -15°C~40°C
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 2.16A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C
	No limit on Initial Charging Current Voltage
Standby Use	13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
	40°C (104°F) 103%
Effect Of Temp. To Capacity	25°C (77°F) 100%
	0°C (32°F) 86%
	Batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.
Self Discharge	



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

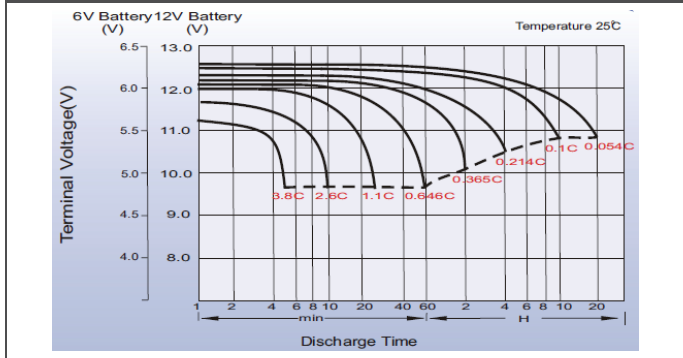
Constant Current Discharge Characteristics: A (25°C)															
F.V/Time	10 Min	15 Min	20 Min	30 Min	45 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	20 Hr	
1.60V	18.9	14.2	11.7	7.92	5.94	4.65	2.79	2.11	1.69	1.37	1.17	0.916	0.757	0.404	
1.65V	17.4	13.3	11.0	7.50	5.70	4.49	2.70	2.04	1.63	1.33	1.15	0.907	0.750	0.402	
1.70V	16.1	12.5	10.4	7.11	5.56	4.35	2.63	1.96	1.58	1.29	1.12	0.893	0.734	0.397	
1.75V	14.8	11.7	9.86	6.83	5.35	4.21	2.53	1.91	1.54	1.26	1.10	0.880	0.727	0.390	
1.80V	13.5	10.7	9.16	6.58	5.15	4.03	2.44	1.87	1.51	1.23	1.07	0.865	0.720	0.386	
1.85V	10.5	8.87	7.75	5.58	4.43	3.59	2.23	1.74	1.41	1.15	1.00	0.816	0.680	0.382	

Constant Power Discharge Characteristics: Wpc (25°C)															
F.V/Time	10 Min	15 Min	20 Min	30 Min	45 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	20 Hr	
1.60V	33.1	25.5	21.4	14.7	11.2	8.82	5.33	4.05	3.25	2.66	2.30	1.80	1.49	0.803	
1.65V	31.0	24.1	20.3	14.1	10.8	8.58	5.19	3.95	3.17	2.59	2.25	1.79	1.48	0.800	
1.70V	28.9	22.8	19.2	13.4	10.6	8.33	5.06	3.79	3.07	2.52	2.21	1.76	1.45	0.791	
1.75V	26.9	21.5	18.3	12.9	10.2	8.10	4.88	3.70	2.99	2.47	2.16	1.74	1.44	0.777	
1.80V	24.8	19.9	17.2	12.5	9.89	7.77	4.72	3.64	2.93	2.41	2.11	1.71	1.43	0.771	
1.85V	19.7	16.7	14.8	10.7	8.57	6.98	4.35	3.40	2.76	2.25	1.97	1.61	1.35	0.765	

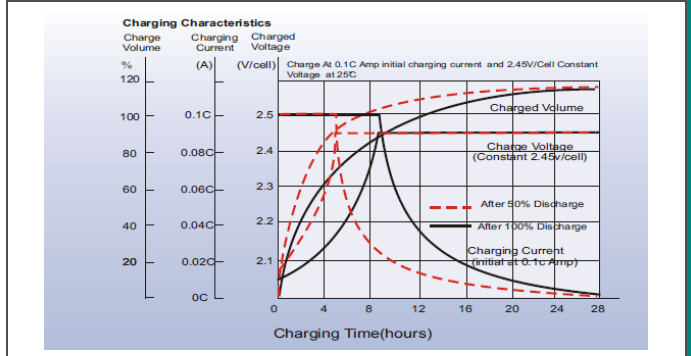


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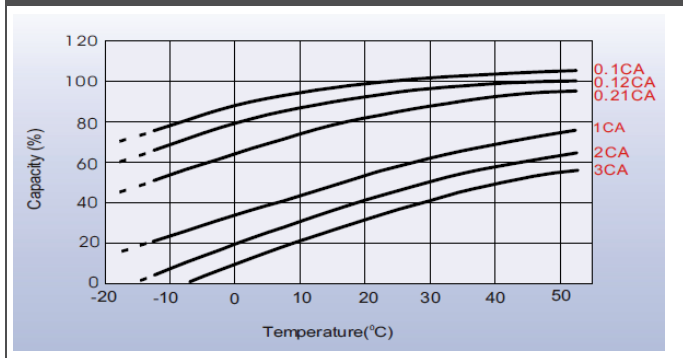
Discharge Characteristics



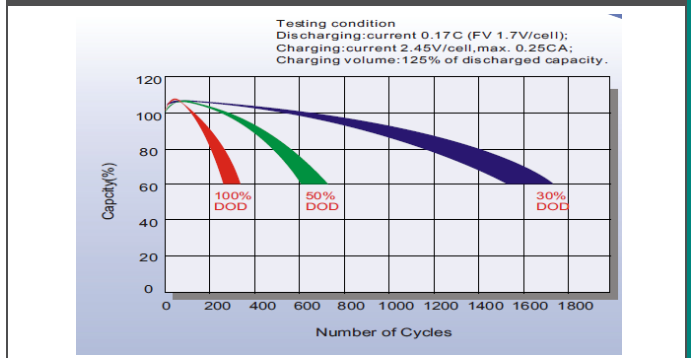
Charging Characteristics (cycle use)



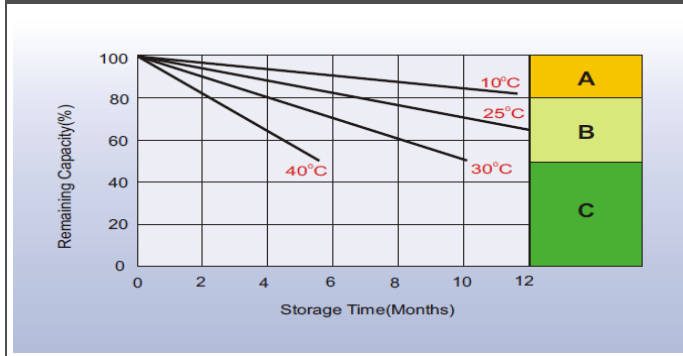
Temperature Effects In Relation To Battery Capacity



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Self Discharge Characteristics

- A** No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
 3. Charged for 8-10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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