



EV12-8 (12V 8Ah)

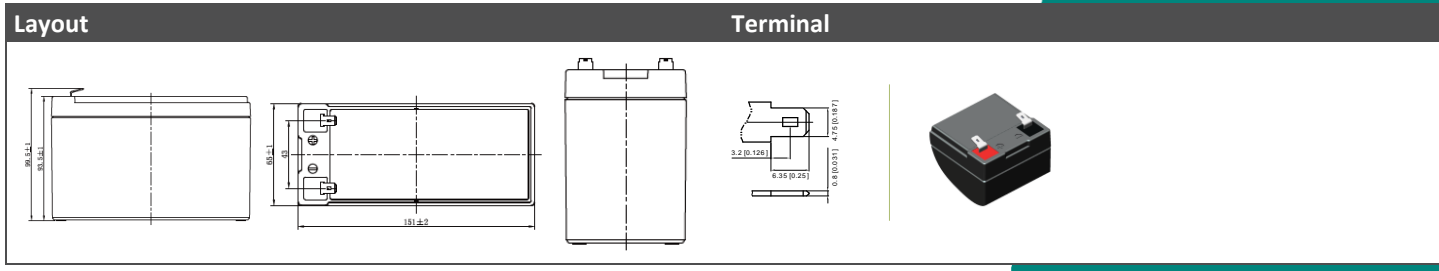
Specifications	
Rated Voltage	12
Nominal Capacity	8Ah@10hr-rate
Dimensions	Length 151 mm
	Width 65 mm
	Container Height 93.5 mm
	Total Height 99,5 mm
Approx. Weight	Approx 2.50 Kg (5.27 lbs)
Terminal	T1
Container material	ABS
Rated Capacity (25°C)	8.00 AH/0.400A (20hr, 1.75V/cell, 25°C / 77°F)
	7.57 AH/0.757A (10hr, 1.75V/cell, 25°C / 77°F)
	7.00 AH/1.40A (5hr, 1.75V/cell, 25°C / 77°F)
	6.54 AH/2.18A (3hr, 1.75V/cell, 25°C / 77°F)
	5.95 AH/5.59A (1hr, 1.60V/cell, 25°C / 77°F)
Max. Discharge Current	120A (5s)
Internal Resistance	Approx 20.0mΩ
Operating Temp. Range	Discharge: -15°C~50°C
	Charge: -20°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 2.4A. 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



Constant Current Discharge Characteristics: A (25°C)

F.V/Time	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	20 Hr
1.60V	18.3	10.4	5.95	3.25	2.28	1.76	1.46	1.22	0.957	0.780	0.411
1.65V	17.7	10.1	5.82	3.19	2.23	1.73	1.43	1.20	0.944	0.770	0.406
1.70V	17.3	9.97	5.73	3.15	2.21	1.71	1.42	1.19	0.937	0.764	0.403
1.75V	16.7	9.72	5.63	3.11	2.18	1.69	1.40	1.18	0.927	0.757	0.400
1.80V	16.2	9.47	5.51	3.05	2.15	1.67	1.39	1.17	0.917	0.749	0.396
1.85V	15.4	9.19	5.38	2.99	2.11	1.64	1.37	1.15	0.904	0.739	0.391

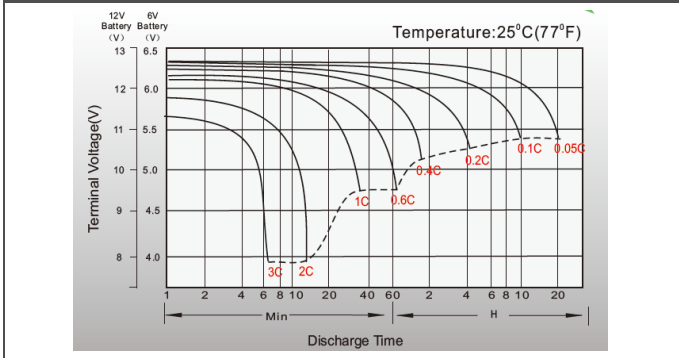
Constant Power Discharge Characteristics: Wpc (25°C)

F.V/Time	15 Min	30 Min	1 Hr	2 Hr	3 Hr	4 Hr	5 Hr	6 Hr	8 Hr	10 Hr	20 Hr
1.60V	34.1	19.7	11.4	6.3	4.43	3.44	2.85	2.40	1.89	1.54	0.822
1.65V	33.2	19.3	11.2	6.18	4.36	3.39	2.82	2.37	1.87	1.53	0.813
1.70V	32.5	19.0	11.0	6.12	4.32	3.36	2.80	2.35	1.85	1.52	0.807
1.75V	31.6	18.6	10.9	6.05	4.27	3.32	2.76	2.33	1.84	1.50	0.800
1.80V	30.8	18.2	10.7	5.96	4.21	3.28	2.73	2.30	1.82	1.49	0.791
1.85V	29.5	17.8	10.5	5.86	4.15	3.24	2.70	2.27	1.79	1.47	0.782

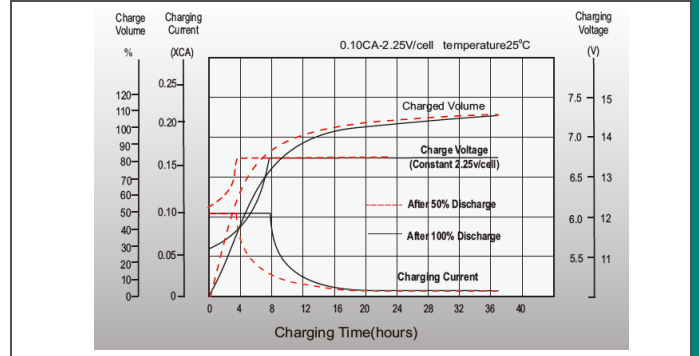


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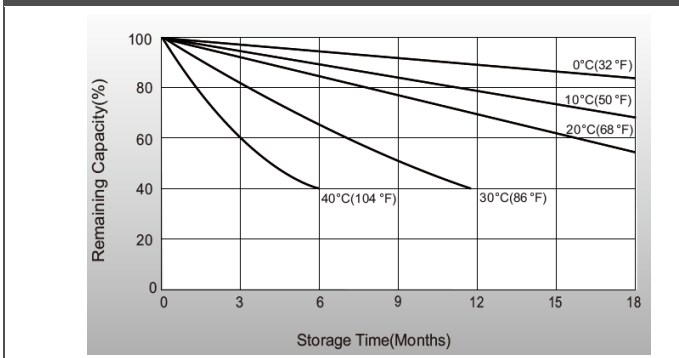
Discharge Characteristics



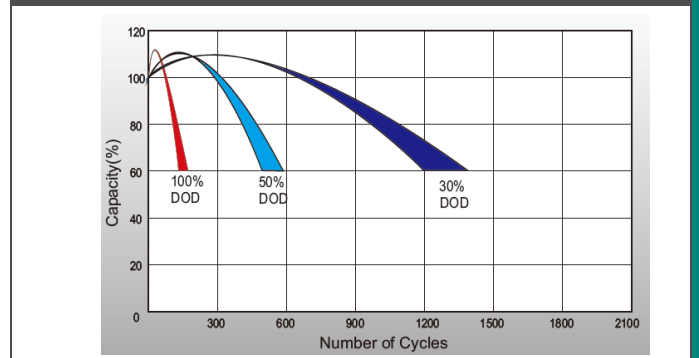
Float Charging Characteristics (cycle use)



Self Discharge Characteristics



Cycle Life in Relation to Depth of Discharge



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