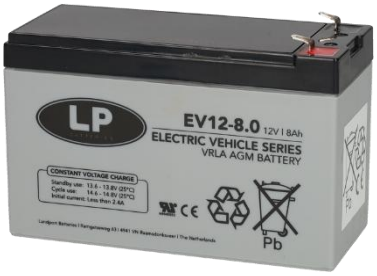
EV12-8 (12V 8Ah)

Since 1993

Item Code: VRLA EV120080 T1
EAN: 8717101003466

Specifications



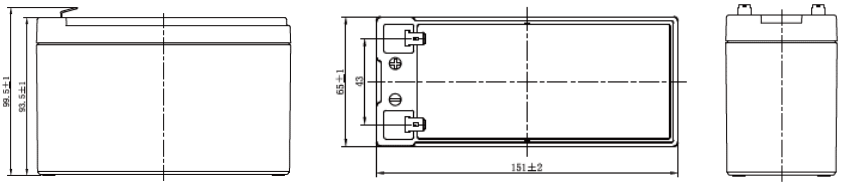
Nominal Voltage	12		
Approx. Weight	2.50 Kg (5.51 lbs)		
Container Material	ABS		
Rated Capacity (25˚C)	**8.06 Ah**		**20hr, 0.403A, 1.85V/cell**
	7.69 Ah		10hr, 0.769A, 1.80V/cell
	6.95 Ah		5hr, 1.39A, 1.75V/cell
	6.12 Ah		3hr, 2.04A, 1.75V/cell
	5.10 Ah		1hr, 5.10A, 1.60V/cell
Max. Discharge Current	128A (5s)		
Internal Resistance	Approx. 18.0m Ω		
Maximum Charging Current	2.4A		
Operating Temp. Range	Discharge:	-15˚C ~ 50˚C	5˚F ~ 122˚F
	Charge:	-20˚C ~ 40˚C	-4˚F ~ 104˚F
	Storage:	-15˚C ~ 40˚C	5˚F ~ 104˚F
Nominal operating temp. Range	25±5°C (77± 9°F)		
Effect of Temp. to Capacity	40˚C	104˚C	103%
	25˚C	77˚C	100%
	0˚C	32˚C	86%
Cycle Use	Initial Charging Current less than 2.4A. Voltage 14.4V~15.0V at 25°C (77 °F) Temp. Coefficient -30mV/°C		
Standby Use	Initial Charging Current less than 2.40A. Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C		
Self-Discharge	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.		

Certificates / Standards

- UL Certified MH48553
- CE Certified
- Manufactured in certified production facilities IATF 16949/ ISO 9001/ ISO 14001/ ISO 45001

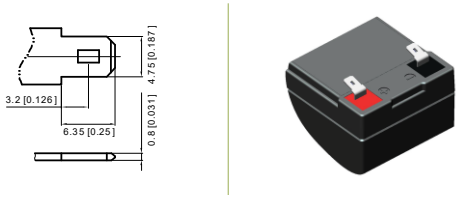
Dimensions

Layout



Length	151 mm
Width	65 mm
Container Height	93.5 mm
Total Height	99.5 mm

Terminal



Terminal	T1
Layout	3

EV12-8 (12V 8Ah)

Since 1993

Constant Current Discharge Characteristics: Amperes (25˚C)

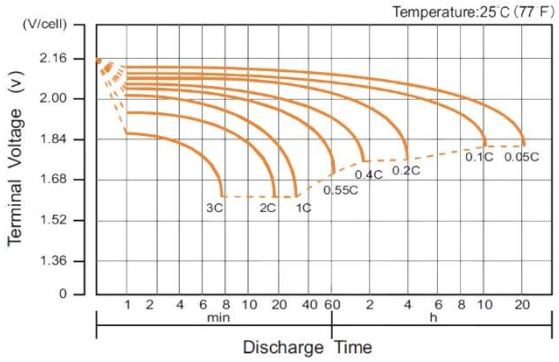
F.V / Time	15 min	30 min	1 hr	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	20 hr
1.85V	11.1	7.04	4.22	2.52	1.87	1.52	1.29	0.884	0.730	0.403
1.80V	12.4	7.70	4.54	2.69	1.99	1.60	1.36	0.932	0.769	0.412
1.75V	13.4	8.03	4.70	2.76	2.04	1.63	1.39	0.949	0.782	0.421
1.70V	14.1	8.33	4.84	2.84	2.08	1.67	1.41	0.962	0.792	0.426
1.67V	14.6	8.61	4.99	2.89	2.13	1.69	1.44	0.973	0.800	0.430
1.60V	15.1	8.85	5.10	2.96	2.16	1.73	1.46	0.983	0.807	0.433

Constant Power Discharge Characteristics: Watts/ cell (25˚C)

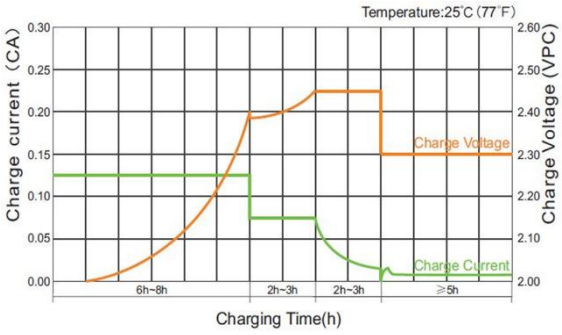
F.V / Time	15 min	30 min	1 hr	2 hr	3 hr	4 hr	5 hr	8 hr	10 hr	20 hr
1.85V	21.3	13.8	8.32	4.97	3.72	3.02	2.59	1.78	1.47	0.814
1.80V	23.7	15.0	8.91	5.31	3.94	3.19	2.72	1.87	1.54	0.829
1.75V	25.4	15.5	9.23	5.44	4.01	3.23	2.75	1.89	1.56	0.843
1.70V	26.3	16.0	9.40	5.54	4.09	3.27	2.77	1.90	1.57	0.846
1.67V	27.0	16.3	9.60	5.60	4.14	3.30	2.80	1.91	1.58	0.848
1.60V	27.5	16.5	9.70	5.68	4.17	3.34	2.83	1.92	1.59	0.850

(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 C20 should reach 95% after the first cycle and 100% after the third cycle.

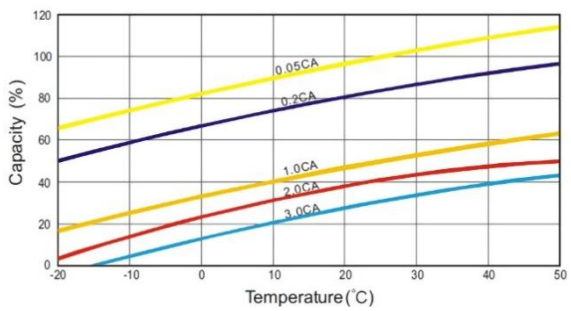
Discharge Characteristic



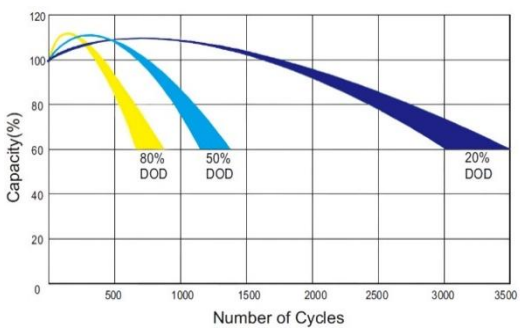
Charging Characteristics (Cycle Use)



Effects of Temperature on Capacity



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.