

XTREME SERIES - FLAME RETARDANT

XR-9.0FR (12V9.0AH/38W)

Specification

Nominal Voltage	12V
Nominal Capacity(10HR)	8.5Ah at 1.80V/cell @25°C/77°F
Watts(15min Rated)	38.0 Watts/cell at 1.67V/cell @25°C/77°F
Dimension	Length 151±2mm (5.95 inches)
	Width 65±1mm (2.56 inches)
	Container Height 93.5±1mm (3.68 inches)
	Total Height (with Terminal) 99±1mm (3.90 inches)
	Approx Weight 2.50 kg (5.51lbs)
Terminal	T2
Container Material	ABS
Rated Capacity	8.50 AH/0.850A (10hr, 1.80V/cell, 25°C/77°F)
	7.84 AH/0.980A (8hr, 1.80V/cell, 25°C/77°F)
	7.40 AH/1.48A (5hr, 1.75V/cell, 25°C/77°F)
	6.93 AH/2.31A (3hr, 1.75V/cell, 25°C/77°F)
	6.25AH/6.25A (1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	105A (5s)
Internal Resistance	Approx 20.0mΩ
Operating Temp. Range	Discharge : -15~50°C (5~122°F)
	Charge : 0~40°C (32~104°F)
	Storage : -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 2.25A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	Standby Use
Capacity affected by Temperature	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	Leoch LCP series batteries may be stored for up to 9 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

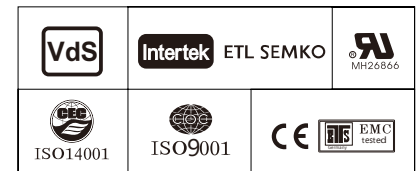


Applications

- ◆ UPS (High rate)
- ◆ Emergency power supply
- ◆ Banks & Financial Markets
- ◆ Hospitals & Testing Laboratories
- ◆ Industrial Process Control Facilities
- ◆ Date & Network Operations Centers

Compliant Standards

- ◆ IEC60896-21/22:2004
- ◆ BS 6290 Part 4



Constant Current Discharge (Amperes) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	25min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	29.3	21.4	17.7	13.9	11.7	10.0	7.53	5.72	4.05	3.25	2.24	1.76	1.44	0.968	0.801
1.80V/cell	31.8	22.5	18.4	14.4	12.1	10.3	7.73	5.83	4.11	3.29	2.27	1.79	1.46	0.980	0.850
1.75V/cell	34.3	23.6	19.0	14.8	12.4	10.5	7.93	5.93	4.18	3.33	2.31	1.81	1.48	0.993	0.858
1.70V/cell	36.9	24.7	19.7	15.2	12.7	10.7	8.13	6.04	4.25	3.37	2.34	1.84	1.50	1.00	0.867
1.67V/cell	38.4	25.3	20.1	15.5	12.9	10.9	8.33	6.10	4.29	3.41	2.36	1.86	1.51	1.01	0.876
1.60V/cell	41.9	26.9	21.1	16.1	13.4	11.2	8.53	6.25	4.38	3.45	2.41	1.89	1.54	1.03	0.883

Constant Power Discharge (Watts) at 25 °C (77°F)

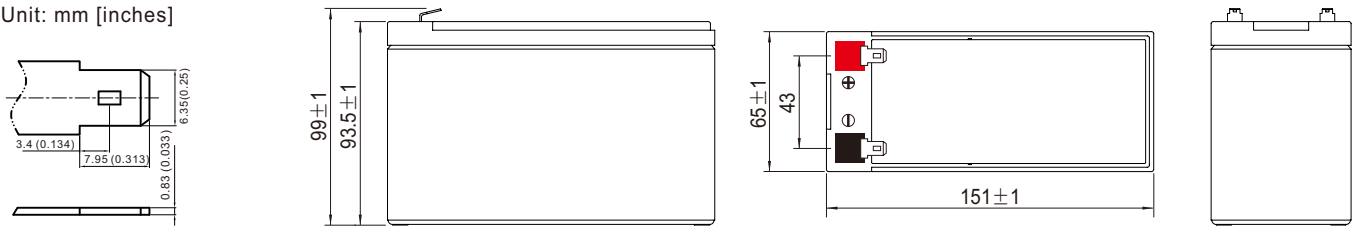
F.V/Time	5min	10min	15min	20min	25min	30min	45min	1h	1.5h	2h	3h	4h	5h	8h	10h
1.85V/cell	55.7	40.9	34.0	26.8	22.6	19.4	14.7	11.1	7.90	6.12	4.40	3.45	2.85	1.92	1.59
1.80V/cell	60.0	42.7	35.1	27.5	23.2	19.8	15.0	11.3	8.01	6.20	4.46	3.50	2.88	1.94	1.69
1.75V/cell	64.4	44.6	36.2	28.2	23.7	20.1	15.3	11.5	8.12	6.28	4.51	4.45	2.91	1.96	1.70
1.70V/cell	68.8	46.4	37.3	28.9	24.2	20.5	15.6	11.6	8.23	6.36	4.57	4.50	2.95	1.99	1.72
1.67V/cell	71.4	47.5	38.0	29.3	24.5	20.7	15.9	11.7	8.29	6.44	4.61	5.45	2.97	2.00	1.74
1.60V/cell	77.0	50.0	39.4	30.3	25.2	21.3	16.2	11.9	8.44	6.52	4.68	5.50	3.01	2.03	1.75



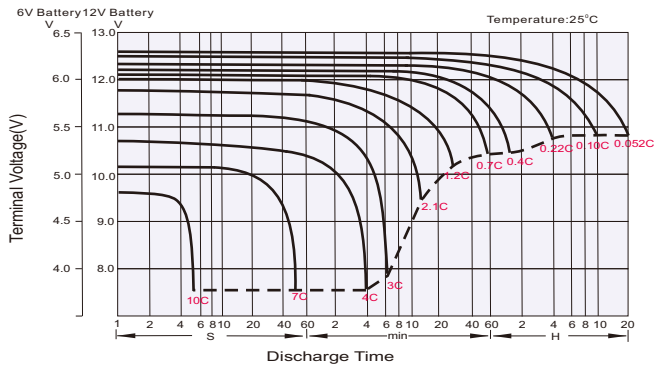
Dimensions

T2 Terminal

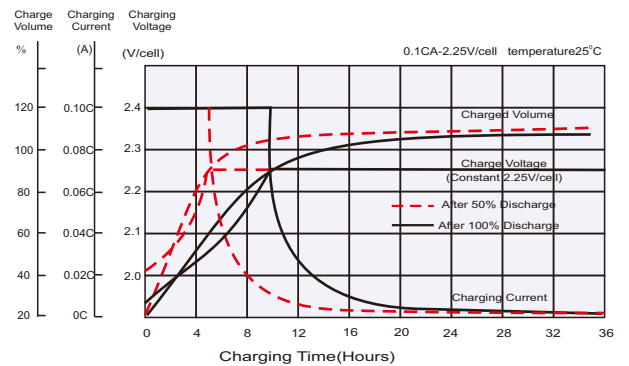
Unit: mm [inches]



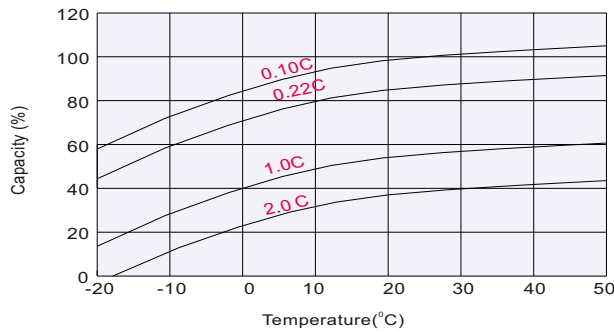
Discharge Characteristics



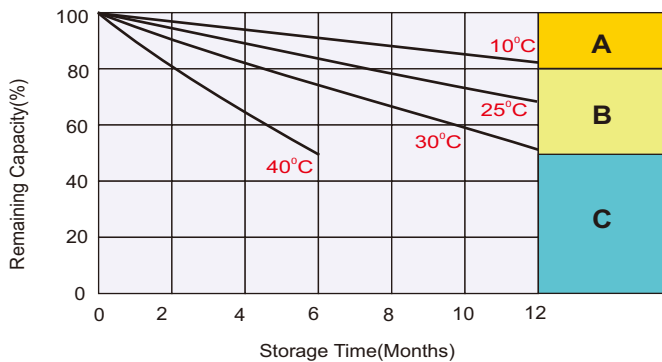
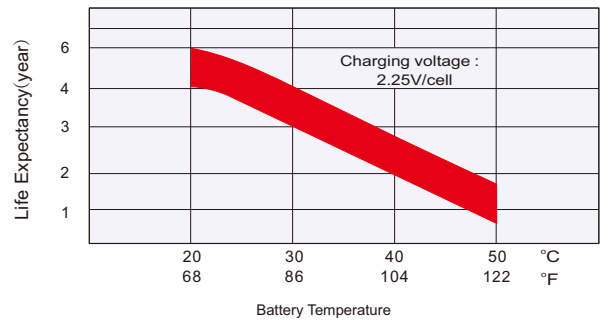
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



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 volatge 2.25V/cell.
 2. Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell.
 3. Charged for 8~10hours 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.

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