

DATA SHEET FOR WWW.AUTOALL.AZ

EB SERIES-General Purpose

EB12-40 (12V40AH)

Specification EB12-40

Nominal Voltage	12V	
Nominal Capacity(10HR)	40.0AH	
Dimensions	Length	197±3mm (10.04 inches)
	Width	165±2mm (3.82 inches)
	Container Height	170±3mm (7.99 inches)
	Total Height (with Terminal)	170±3mm (7.99 inches)
Approx Weight	Approx 12.5 kg (27.6lbs)	
Terminal	T7	
Container Material	ABS	
Rated Capacity	40.0 AH/2.00A	(20hr ,1.80V/cell,25°C/77°F)
	38.5AH/3.85A	(10hr,1.80V/cell,25°C/77°F)
	33.1 AH/6.62A	(5hr,1.75V/cell,25°C/77°F)
	30.0 AH/10.0A	(3hr,1.75V/cell,25°C/77°F)
	23.5 AH/23.5A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	480A (5s)	
Internal Resistance	Approx 9mΩ	
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 12.0A.Voltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%

Self Discharge
 Leoch LP series 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.

Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system



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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	65.9	51.7	44.0	36.8	29.2	22.1	18.2	11.5	9.1	7.46	6.01	5.23	4.25	3.63	1.98
1.80V/cell	88.4	66.2	53.2	43.6	34.5	25.8	20.3	12.6	9.8	7.96	6.46	5.62	4.51	3.85	2.00
1.75V/cell	99.6	72.7	58.1	46.8	35.9	26.7	21.3	13.1	10.0	8.14	6.62	5.77	4.59	3.88	2.02
1.70V/cell	109.7	79.2	62.0	49.2	37.3	27.8	21.9	13.6	10.3	8.36	6.79	5.88	4.65	3.92	2.06
1.65V/cell	121.0	85.5	66.0	52.3	39.3	28.5	22.7	13.9	10.8	8.64	6.98	6.02	4.72	4.00	2.09
1.60V/cell	133.5	92.8	70.5	55.7	41.5	29.7	23.5	14.4	11.1	8.91	7.21	6.15	4.77	4.05	2.10

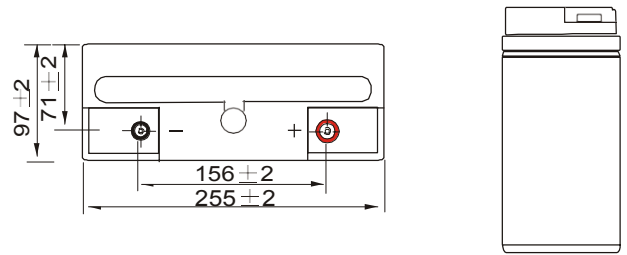
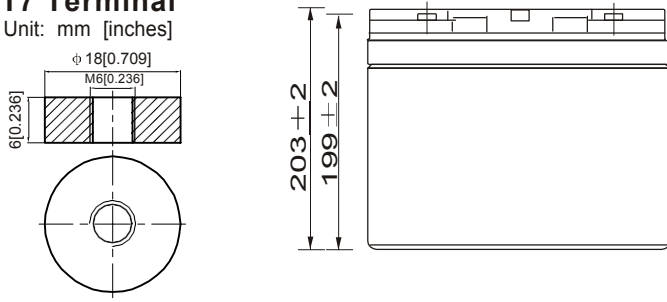
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	120.4	95.6	82.1	69.4	55.8	42.6	35.0	22.4	17.8	14.62	11.83	10.29	8.39	7.18	3.92
1.80V/cell	159.8	120.7	97.9	80.9	64.8	49.1	38.9	24.3	19.0	15.48	12.60	10.96	8.88	7.60	3.95
1.75V/cell	176.3	130.5	105.6	86.2	66.7	50.5	40.6	25.1	19.3	15.77	12.88	11.25	9.00	7.66	3.99
1.70V/cell	188.8	139.0	111.2	89.8	69.0	52.3	41.7	26.1	19.8	16.15	13.17	11.44	9.13	7.74	4.07
1.65V/cell	205.3	148.7	117.3	94.7	72.2	53.2	42.8	26.6	20.6	16.63	13.46	11.73	9.24	7.88	4.12
1.60V/cell	221.2	157.7	123.4	99.8	75.8	55.1	44.1	27.4	21.2	17.12	13.94	11.92	9.32	7.95	4.13

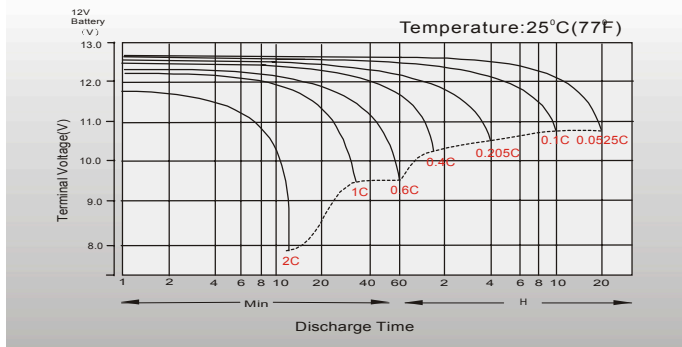
Dimensions

T7 Terminal

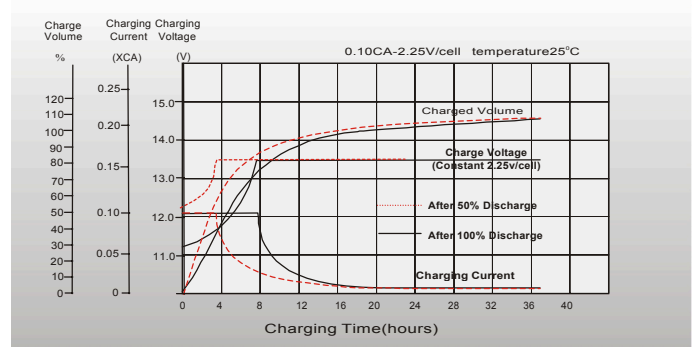
Unit: mm [inches]



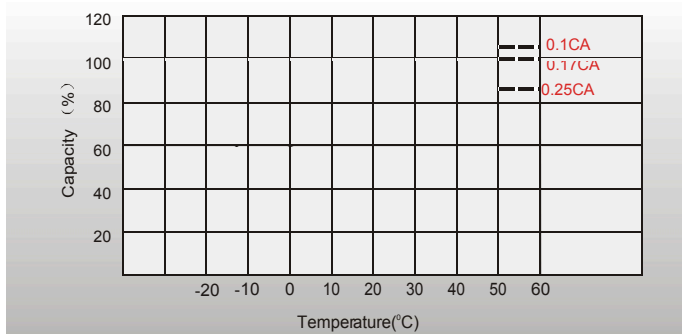
Discharge Characteristics



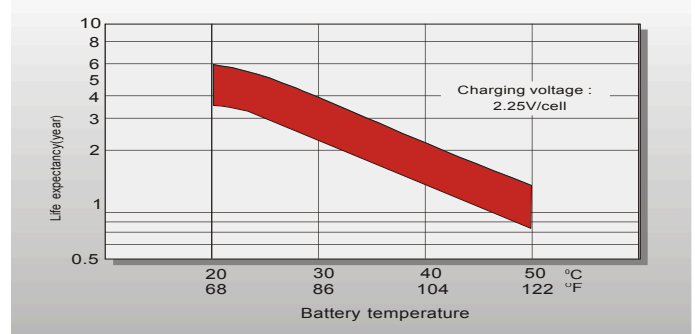
Float Charging Characteristics



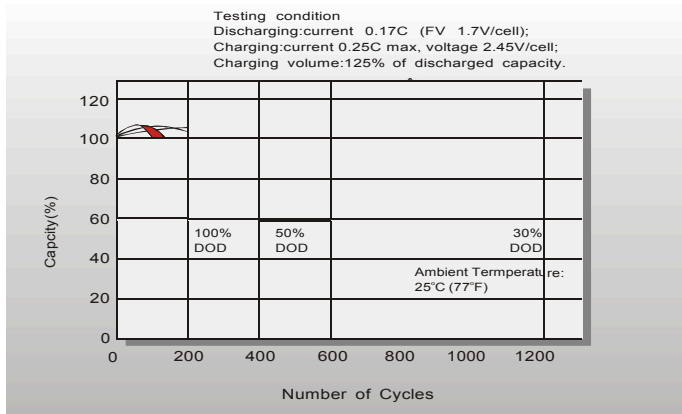
Temperature Effects in Relation to Battery Capacity



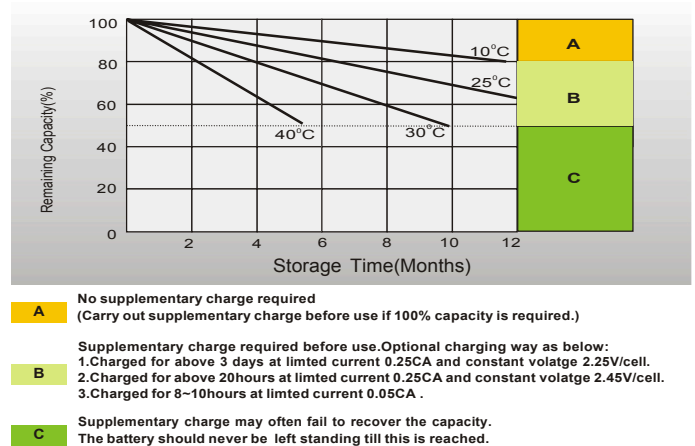
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



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