



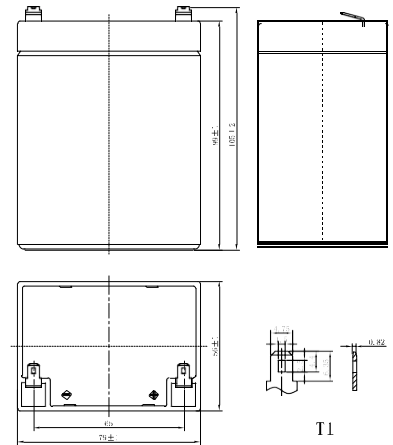
## DATA SHEET FOR WWW.AVTOALL.AZ

### Specifications EB12-2.9

Rated Voltage	12V	
Nominal Capacity	2.9Ah	(C <sub>20</sub> , 1.75V/cell)
Dimension	Length	79±1mm (3.11 inches)
	Width	56±1mm (2.20 inches)
	Container Height	99±1mm (3.90 inches)
	Total Height	105±2mm (4.13 inches)
Approx Weight	1.10 Kg (2.43 lbs)	
Terminal	T1	
Container Material	ABS	
Rated Capacity (25°C)	2.90 Ah	(20hr, 0.145A, 1.75V/cell)
	2.70 Ah	(10hr, 0.270A, 1.75V/cell)
	2.44 Ah	(5hr, 0.487A, 1.75V/cell)
	2.13 Ah	(3hr, 0.710A, 1.75V/cell)
	1.76 Ah	(1hr, 1.76A, 1.60V/cell)
Max. Discharge Current	44A (5s)	
Internal Resistance (25°C)	Approx 50mΩ	
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 0.87A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C	
	Standby Use	
Effect of temp. to Capacity	Initial Charging Current less than 0.87A. Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C	
	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%

Self Discharge 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.

### Layout



## DATA SHEET FOR WWW.AVTOALL.AZ

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	8.14	5.26	4.11	3.44	2.61	1.96	1.59	1.24	0.938	0.687	0.565	0.474	0.410	0.317	0.264	0.142
1.80V/cell	8.75	5.58	4.31	3.58	2.69	2.01	1.63	1.27	0.955	0.699	0.573	0.481	0.416	0.321	0.267	0.143
1.75V/cell	9.22	5.80	4.46	3.68	2.76	2.06	1.66	1.29	0.973	0.710	0.581	0.487	0.421	0.325	0.270	0.145
1.70V/cell	9.66	6.04	4.60	3.79	2.83	2.10	1.70	1.31	0.987	0.720	0.589	0.494	0.426	0.328	0.273	0.146
1.67V/cell	10.0	6.21	4.72	3.86	2.88	2.14	1.72	1.33	1.00	0.727	0.595	0.498	0.430	0.331	0.275	0.147
1.60V/cell	10.6	6.47	4.88	3.98	2.96	2.19	1.76	1.36	1.02	0.741	0.605	0.506	0.436	0.336	0.278	0.149

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	15.4	10.0	7.87	6.63	5.05	3.80	3.10	2.42	1.84	1.35	1.11	0.936	0.811	0.628	0.524	0.284
1.80V/cell	16.4	10.5	8.21	6.86	5.18	3.89	3.16	2.47	1.87	1.37	1.13	0.948	0.822	0.637	0.531	0.287
1.75V/cell	17.1	10.9	8.43	7.01	5.29	3.96	3.22	2.51	1.89	1.39	1.14	0.959	0.831	0.643	0.536	0.290
1.70V/cell	17.7	11.3	8.66	7.18	5.40	4.04	3.26	2.54	1.92	1.41	1.15	0.971	0.839	0.649	0.541	0.292
1.67V/cell	18.2	11.5	8.84	7.31	5.48	4.09	3.31	2.57	1.94	1.42	1.16	0.978	0.846	0.654	0.544	0.295
1.60V/cell	18.9	11.8	9.08	7.49	5.60	4.16	3.37	2.61	1.97	1.44	1.18	0.991	0.856	0.663	0.551	0.298

## Applications

- All purpose
- Uninterruptable Power Supply (UPS)
- Electric Power System (EPS)
- Emergency backup power supply
- Alarm and security system
- Communication power supply
- DC power supply
- Auto control system

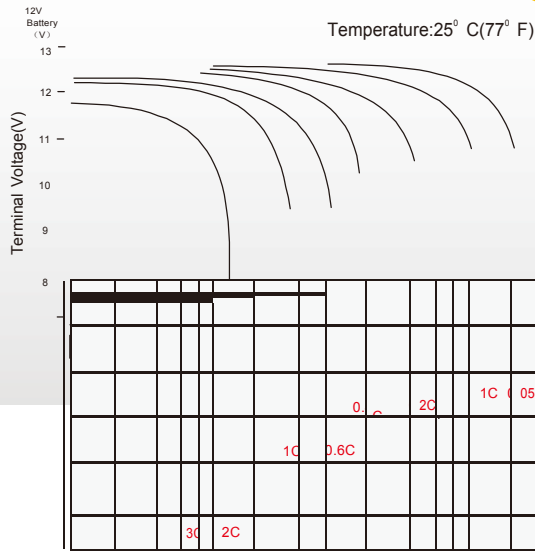
## General Features

- 5 years design life(25°C)
- Special exhaust structure and sealing technology, safe and reliable, flexible installation, convenient maintenance
- PbCaSn alloy for plate grids: less gassing, less self-discharging
- High quality AGM separator: extend cycle life and prevent micro short circuit
- High purity raw material: ensure low self discharge rate

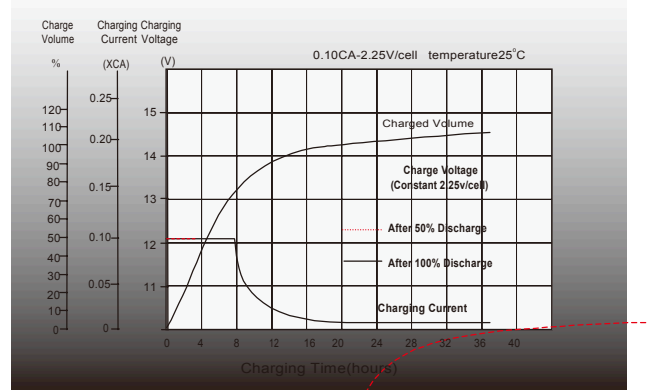
## Standards

- Compliance with IEC 60896 standards, EU Battery Directive
- UL, CE Certified
- Manufactured in Leoch@IATF16949, ISO45001,ISO 9001 and ISO 14001 certified production facilities

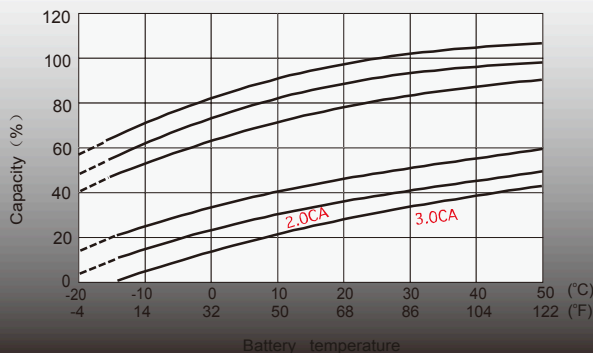
### Discharge Characteristics



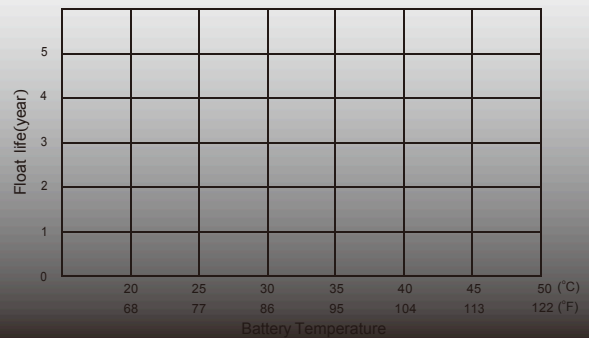
### Float Charging Characteristics



### Temperature Effects in Relation to Battery Capacity



### Float Service Life



## Sales Offices Worldwide

### China Sales Office

5th Floor, Xinbaohui Bldg., Nanshai Blvd.,  
Nanshan, Shenzhen, China. 518052  
Tel: +86-755-86036060 (100 lines)  
Fax: +86-755-26067269  
E-mail: export@leoch.com

### North America Sales Office

Foothill Ranch, CA 92610,  
USA Tel: 949-588-5853  
Fax: 949-588-5966  
E-mail: sales@leoch.us  
Http:// www.leoch.us

### HongKong Sales Office

Workshop C, 33/F, TML Tower, No. 3  
Hoi Shing Road, Tsuen Wan, New  
Territories, Hong Kong  
Tel: +852 35786666  
Fax: +44 1452 690125  
E-mail: sales.hk@leoch.com

9B Wheatstone Court, Waterwells, Business Park, Gloucester, GL2-2AQ, UK  
Kingdom

Tel: +44(0) 1452 729428 / 1452 729696  
Fax: +44 1452 690125  
E-mail: Sales.Europe@leoch.com Http:// www.leoch.us

#### Singapore Sales Office

No. 1 Tech Park Crescent, Singapore 638131  
Tel: +65 68636078  
Fax: +65 6863 6079  
Email: sales.sg@leoch.com

#### EMEA Sales Office

1 Deligiorgi St., 121 31 Athens, Greece  
Tel: +30 210 5760318 (2 lines)  
E-mail: support\_EMEA@leoch.com [Http:// www.leoch.eu](http://www.leoch.eu)

#### Australia Sales Office

2 /29 Tarlington Place,  
Smithfield, NSW 2164  
Australia  
Tel: 02 9756 0950  
E-mail: sales.au@leoch.com

#### India Sales Office

Shed no.A-53(b), 2nd Stage of  
Peenya Industrial Area, Bangalore  
North Taluk, Bangalore-560058,  
India  
Tel: +91-  
80-  
2344001  
8/234400  
19 Fax:  
+91-80-  
2344001  
7  
E-mail: indiasales@leoch.com

[Http://www.leoch.com](http://www.leoch.com)

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