

Specification

Nominal Voltage	12V
Nominal Capacity (10HR)	5.74AH
Dimension	Length 90 ± 1mm (3.54 inches)
	Width 70 ± 1mm (2.76 inches)
	Container Height 101 ± 1mm (3.98 inches)
	Total Height (with Terminal) 107 ± 1mm (4.21 inches)
Approx Weight	Approx 1.74 kg (3.84lbs)
Terminal	T1 / T2
Container Material	ABS
Rated Capacity	5.74 AH/0.574A (10hr, 1.80V/cell, 25°C/77°F)
	5.40 AH/0.675A (8hr, 1.75V/cell, 25°C/77°F)
	4.85 AH/0.97A (5hr, 1.75V/cell, 25°C/77°F)
	4.41 AH/1.47A (3hr, 1.75V/cell, 25°C/77°F)
	4.39 AH/4.39A (1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	81A (5s)
Internal Resistance	Approx 25mΩ
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 1.62A. Voltage 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C
	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
Standby Use	40°C (104°F) 103%
Capacity affected by Temperature	25°C (77°F) 100%
	0°C (32°F) 86%
	Leoch DJW 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.
Self Discharge	



Applications

- ◆ UPS (High rate)
- ◆ High power backup supply
- ◆ Emergency power supply
- ◆ Starting system
- ◆ Power tools
- ◆ Emergency lighting
- ◆ Electric starting



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	17.6	11.1	8.40	7.50	6.04	4.43	3.56	1.91	1.37	1.07	0.912	0.787	0.648	0.559	0.299
1.80V/cell	19.8	12.3	9.22	8.06	6.49	4.78	3.80	2.05	1.43	1.13	0.941	0.815	0.675	0.574	0.302
1.75V/cell	22.3	13.5	10.1	8.67	6.73	4.96	3.98	2.12	1.47	1.15	0.970	0.832	0.686	0.580	0.304
1.70V/cell	24.6	14.7	10.8	9.12	7.01	5.16	4.10	2.21	1.51	1.18	0.989	0.849	0.695	0.586	0.310
1.67V/cell	27.2	15.9	11.4	9.70	7.40	5.29	4.24	2.27	1.58	1.22	1.019	0.872	0.706	0.598	0.314
1.60V/cell	30.0	16.9	12.0	10.300	7.81	5.51	4.39	2.35	1.63	1.26	1.038	0.885	0.713	0.604	0.316

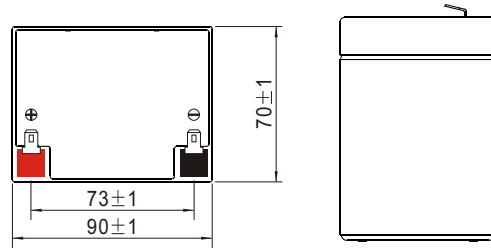
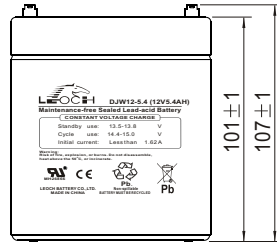
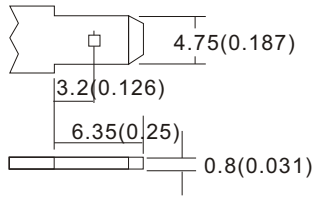
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	32.1	20.5	15.7	14.2	11.5	8.53	6.87	3.72	2.68	2.11	1.82	1.57	1.27	1.11	0.595
1.80V/cell	35.8	22.4	17.0	14.9	12.2	9.11	7.29	3.95	2.78	2.21	1.86	1.62	1.32	1.13	0.598
1.75V/cell	39.6	24.3	18.3	16.0	12.5	9.37	7.60	4.08	2.85	2.26	1.91	1.66	1.34	1.14	0.603
1.70V/cell	42.4	25.8	19.3	16.7	13.0	9.70	7.81	4.24	2.92	2.31	1.96	1.69	1.36	1.15	0.615
1.67V/cell	46.1	27.6	20.4	17.6	13.6	9.89	8.02	4.33	3.04	2.39	2.00	1.73	1.37	1.17	0.622
1.60V/cell	49.7	28.8	21.0	18.5	14.3	10.20	8.25	4.45	3.11	2.43	2.03	1.75	1.38	1.18	0.625

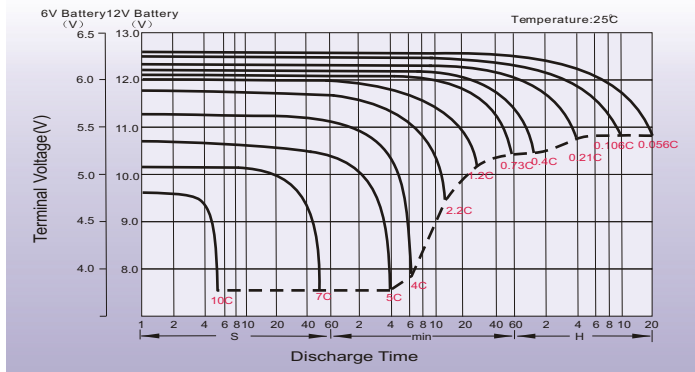
Dimensions

T1 Terminal

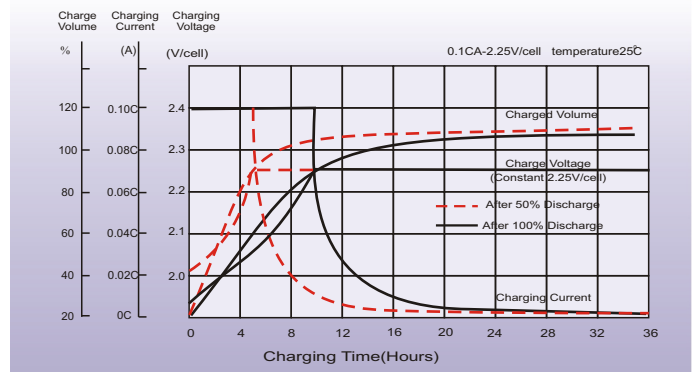
Unit: mm [inches]



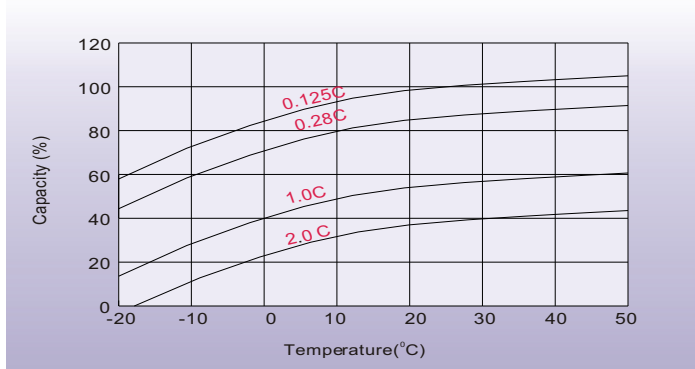
Discharge Characteristics



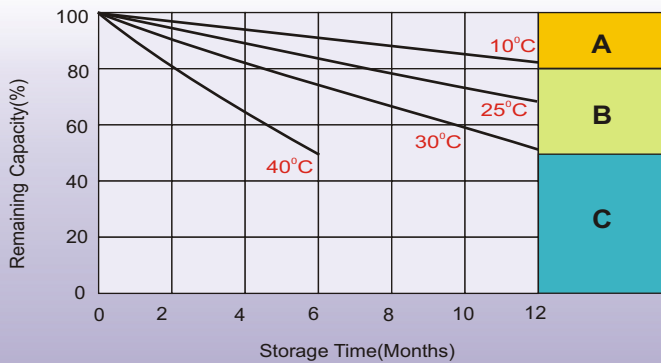
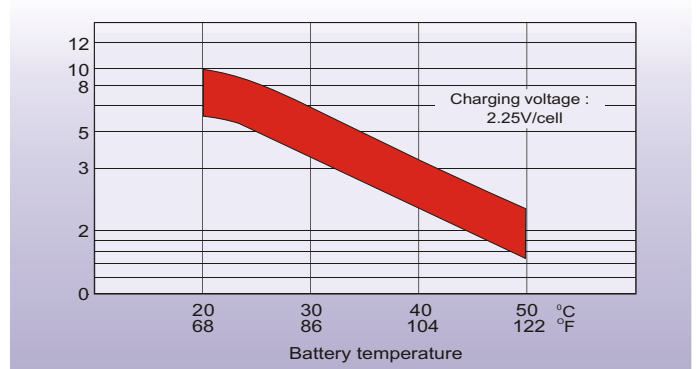
Float Charging Characteristics



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

Sales Office

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