LP SERIES-General Purpose

LP12-40 (12V40AH)

Specification

Nominal Voltage 12V Nominal Capacity(10HR) 40.0AH 255±3mm (10.0 inches) Length 97 ± 2 mm (3.82 inches) Width **Dimensions** Container Height 203±3mm (7.99 inches) Total Height (with Terminal) 203±3mm (7.99 inches) Approx Weight Approx 12.5 kg (27.6lbs) Terminal T7 **Container Material** ABS 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) Rated Capacity 30.0 AH/10.0A (3hr, 1.75V/cell, 25°C/77°F) (1hr,1.60V/cell,25°C/77°F) 23.5 AH/23.5A Max. Discharge Current 480A (5s) Internal Resistance Approx 9mΩ Discharge: -15~50°C (5~122°F) Operating Temp.Range : 0~40°C (32~104°F) Storage : -15~40°C (5~104°F) Nominal Operating Temp. Range $25\pm3^{\circ}C(77\pm5^{\circ}F)$ Initial Charging Current less than 12.0A. Voltage Cycle Use 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C No limit on Initial Charging Current Voltage Standby Use 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C 40°C (104°F) 103% Capacity affected by 25°C (77°F) 100% Temperature 86% 0°C 32°F) Leoch LP series batteries may be stored for up to 6 months Self Discharge 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





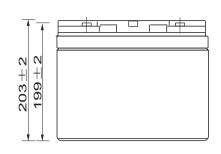


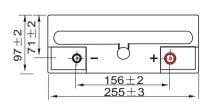
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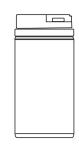
Constant Current Discharge (Amperes) at 25 °C (77°F)															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	65.9	51.7	44.0	36.8	29.2	22.1	18.2	11.5	9.1	7.46	6.01	5.23	4.25	3.63	1.98
1.80V/cell	88.4	66.2	53.2	43.6	34.5	25.8	20.3	12.6	9.8	7.96	6.46	5.62	4.51	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

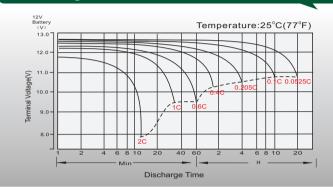
Dimensions



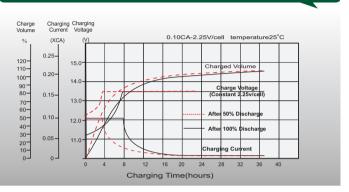




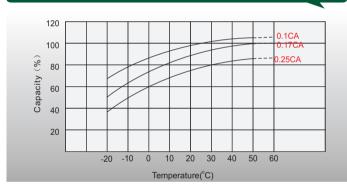
Discharge Characteristics



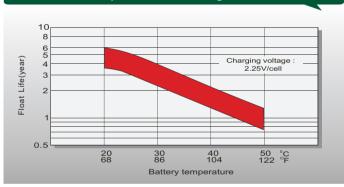
Float Charging Characteristics



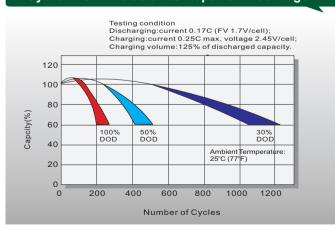
Temperature Effects in Relation to Battery Capacity



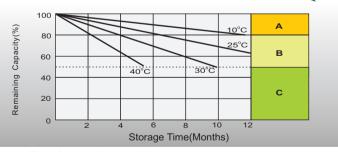
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required.)

Supplementary charge required before use. Optional charging way as below:

1. Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell.

2. Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell.

3. Charged for 8-10hours at limted current 0.05CA.

Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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