LPS SERIES-Solar Power

LPS2-1100 (2V1150AH)

Specification

Nomial Voltage	2V
Nomial Capacity(100HR)	1150.0AH
Dimension	Length 475±3mm (18.70 inches) Width 175±3mm (6.89 inches) Container Height 328±3mm (12.91 inches) Total Height (with Terminal) 350±3mm (13.78 inches)
Approx Weight	Approx 66.0 Kg(145.5 lbs)
Terminal	T11
Container Material	ABS
Rated Capacity	1150.0 AH/11.5A (100hr ,1.80V/cell,25°C/77°F) 1060.0 AH/53.0A (20hr ,1.80V/cell,25°C/77°F) 1000.0 AH/100.0A (10hr,1.80V/cell,25°C/77°F) 862.5 AH/172.5A (5hr,1.75V/cell,25°C/77°F) 605.0 AH/605.0A (1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	8000A (5s)
Internal Resistance	Approx 0.45mΩ
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 than300.0A.Voltage 2.4V~2.5V at 25°C(77°F)Temp. Coefficient -5mV/°C
Standby Use	No limit on Initial Charging Current Voltage 2.25V~2.3V at 25°C(77°F)Temp. Coefficient -3mV/°C
Capacity affected by Temperature	40°C (104°F) 103% 25°C (77°F) 100% 0°C (32°F) 86%
Self Discharge	Leoch LPS series batterys 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

- Green energy systems
- Communication systems

Leoch battery is green battery, focus on the Environmental protection and Ecological protection, which well connect human being and environment into harmony. Continous power supply for people, and being benign cycle back to the green environment.

VdS Intertek ETL SEMKO MH26866 ISO14001 ISO9001 CE EMC tested

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

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	943.8	836.4	696.3	550.8	460.6	303.3	229.9	186.8	158.5	112.2	96.2	51.2	23.1	11.3
1.80V/cell	1067.3	930.9	760.5	593.3	488.3	322.6	242.7	195.9	166.5	117.9	100.0	53.0	23.5	11.5
1.75V/cell	1205.2	1030.1	826.8	640.0	529.0	338.8	255.0	204.7	172.5	121.4	102.3	54.0	23.9	11.7
1.70V/cell	1334.6	1135.0	900.6	674.7	559.9	357.3	267.3	213.5	179.9	125.9	105.6	55.3	24.2	11.9
1.65V/cell	1424.6	1203.7	947.1	720.0	580.4	369.7	277.0	221.0	186.3	129.2	107.9	56.6	24.6	12.0
1.60V/cell	1580.1	1324.2	1022.8	750.7	605.0	383.5	286.3	228.0	192.9	132.7	110.8	57.9	25.0	12.1

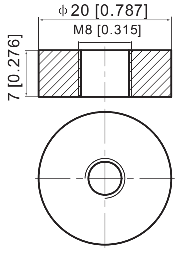
Constant Power Discharge (Watts) at 25 °C (77°F)

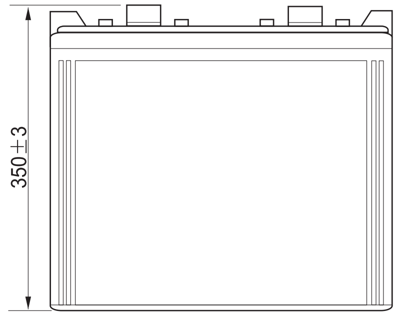
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	1769.6	1584.2	1333.3	1063.7	892.6	591.6	450.1	367.0	312.2	222.4	191.1	101.8	46.0	22.6
1.80V/cell	1974.5	1737.3	1434.1	1136.9	941.3	625.2	472.5	382.8	326.4	232.9	198.3	105.3	46.7	22.9
1.75V/cell	2202.2	1904.2	1546.3	1214.7	1015.1	654.1	494.6	398.5	337.0	239.3	202.7	107.2	47.5	23.3
1.70V/cell	2405.0	2082.4	1675.1	1275.8	1070.9	688.3	517.6	414.9	350.9	247.8	208.8	109.5	48.0	23.6
1.65V/cell	2547.5	2192.0	1747.3	1349.3	1102.2	708.2	534.0	427.8	362.1	253.7	213.0	112.0	48.8	23.8
1.60V/cell	2779.0	2385.2	1873.8	1399.2	1142.8	731.1	549.5	440.0	373.6	260.1	218.4	114.5	49.6	24.0

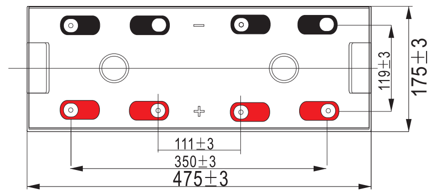
Dimensions

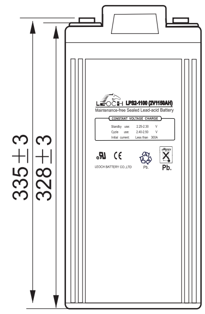
T11 Terminal

Unit: mm [inches]

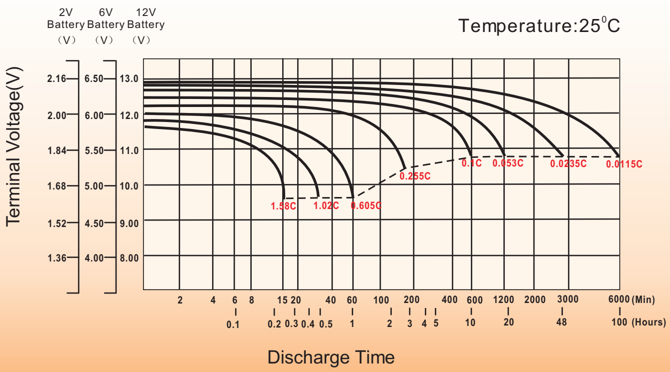




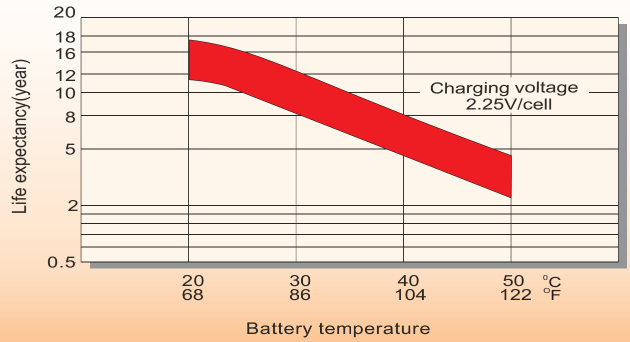




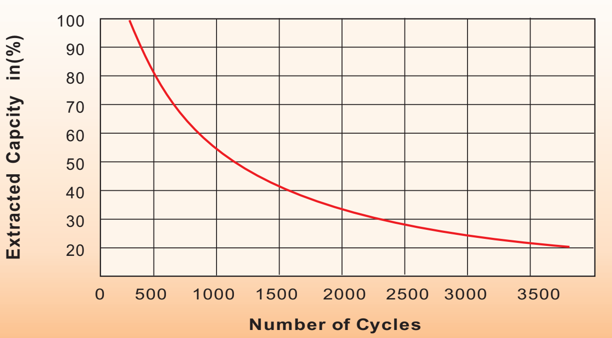
Discharge Characteristics



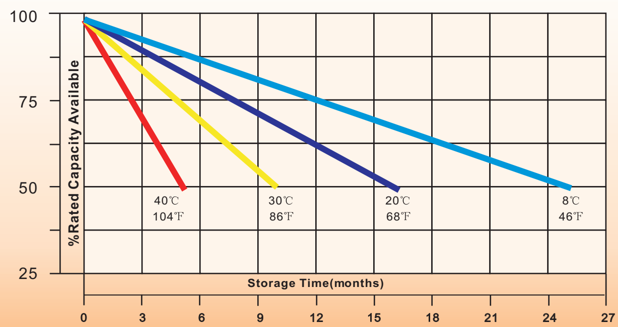
Effect of Temperature on Long Term Float Life

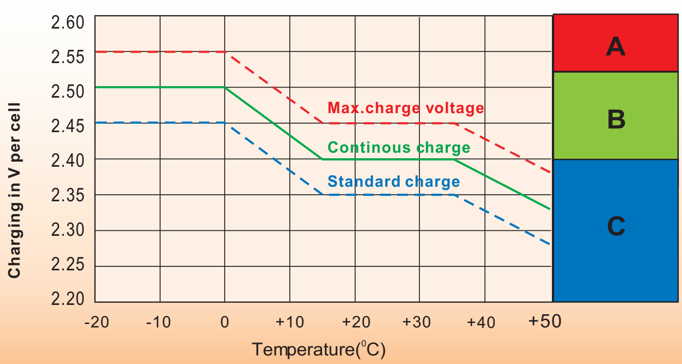


Cycle Service Life



Self-Discharge at Different Temperatures





Charge Mode

A With switch regulator (two-step controller) chargeon curve max.charge voltage for max.2 hrs/day then switch over to continouscharge

B Standard charge without switching

C Boost charge (Equalizing charge with externalgenerator) charge on curve continous charge for max. 5 hrs/month, thenswitch over to curve Standard charge

Sales Office

China sales office:

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

North America sales office:

Add: 19751 Descartes, Unit A,
Foothill Ranch, CA 92610, USA
Tel: 949-588-5853
Fax: 949-588-5966
E-mail: sales@leoch.us
Http://www.leoch.us

Europe sales office:

Add: LaCampagna House. Main Road.
Gloucester. GL2-8JH. United Kingdom
Tel: +44(0) 1452 751016
E-mail:Sales.Europe@leoch.com
Http://www.leoch.com