LPS SERIES-Solar Power

LPS2-900 (2V920AH)

Specification

Nomial Voltage	2V
Nomial Capacity(100HR)	920.0AH
Dimension	Length 410±3mm (16.14 inches) Width 175±3mm (6.89 inches) Container Height 330±3mm (12.99 inches) Total Height (with Terminal) 351±3mm (13.82 inches)
Approx Weight	Approx 55.0 Kg (121.3 lbs)
Terminal	T11
Container Material	ABS
Rated Capacity	920.0 AH/9.20A (100hr ,1.80V/cell,25°C/77°F) 848.0 AH/42.4A (20hr ,1.80V/cell,25°C/77°F) 800.0 AH/80.0A (10hr,1.80V/cell,25°C/77°F) 690.0 AH/138.0A (5hr,1.75V/cell,25°C/77°F) 484.0 AH/484.0A (1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	6400A (5s)
Internal Resistance	Approx 0.5mΩ
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 than240.0A.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.

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	755.0	669.2	557.0	440.6	368.5	242.6	183.9	149.5	126.8	89.8	77.0	40.9	18.5	9.05
1.80V/cell	853.9	744.7	608.4	474.6	390.7	258.1	194.1	156.8	133.2	94.3	80.0	42.4	18.8	9.20
1.75V/cell	964.1	824.1	661.4	512.0	423.2	271.0	204.0	163.8	138.0	97.1	81.9	43.2	19.1	9.38
1.70V/cell	1067.7	908.0	720.5	539.7	447.9	285.8	213.9	170.8	143.9	100.7	84.5	44.2	19.4	9.50
1.65V/cell	1139.7	963.0	757.7	576.0	464.3	295.8	221.6	176.8	149.0	103.3	86.3	45.3	19.7	9.60
1.60V/cell	1264.0	1059.3	818.2	600.5	484.0	306.8	229.1	182.4	154.3	106.2	88.6	46.3	20.0	9.70

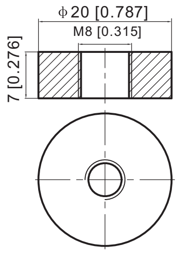
Constant Power Discharge (Watts) at 25 °C (77°F)

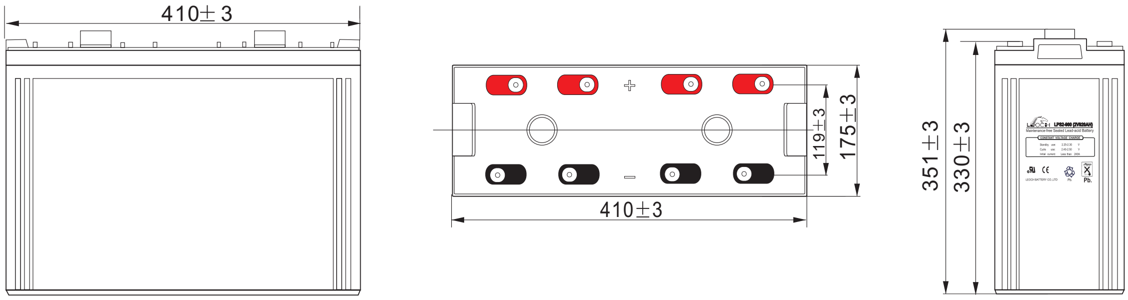
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	1415.7	1267.4	1066.7	851.0	714.1	473.3	360.1	293.6	249.8	177.9	152.9	81.5	36.8	18.1
1.80V/cell	1579.6	1389.8	1147.2	909.5	753.1	500.2	378.0	306.2	261.1	186.3	158.7	84.2	37.4	18.3
1.75V/cell	1761.8	1523.3	1237.0	971.8	812.1	523.2	395.7	318.8	269.6	191.4	162.1	85.8	38.0	18.7
1.70V/cell	1924.0	1665.9	1340.0	1020.6	856.7	550.7	414.0	331.9	280.7	198.2	167.0	87.6	38.4	18.9
1.65V/cell	2038.0	1753.6	1397.8	1079.4	881.8	566.6	427.2	342.2	289.7	203.0	170.4	89.6	39.0	19.1
1.60V/cell	2223.2	1908.2	1499.0	1119.4	914.3	584.9	439.6	352.0	298.9	208.1	174.7	91.6	39.7	19.2

Dimensions

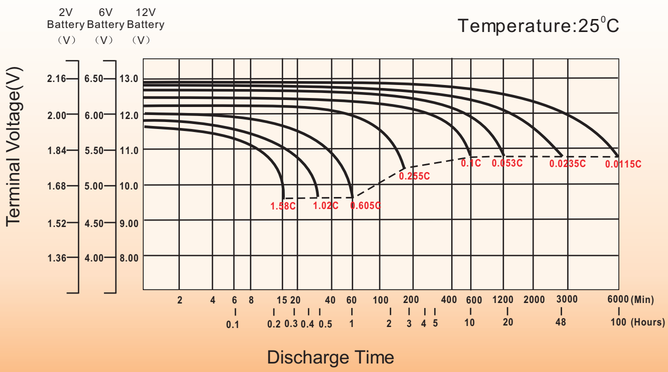
T11 Terminal

Unit: mm [inches]

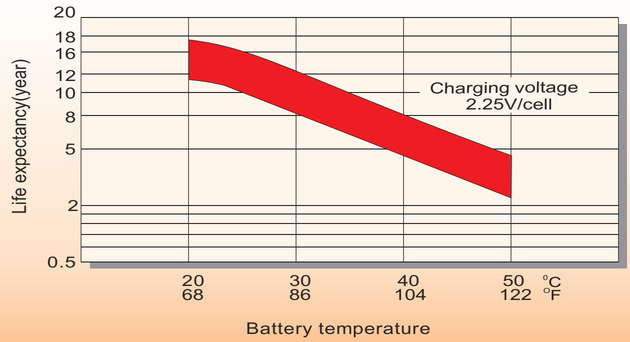




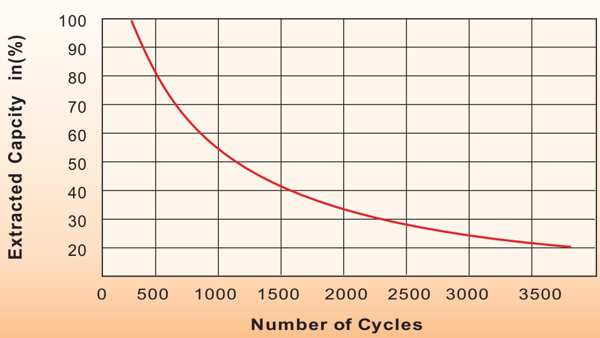
Discharge Characteristics



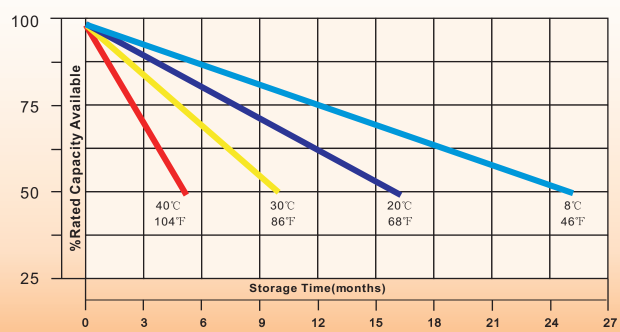
Effect of Temperature on Long Term Float Life

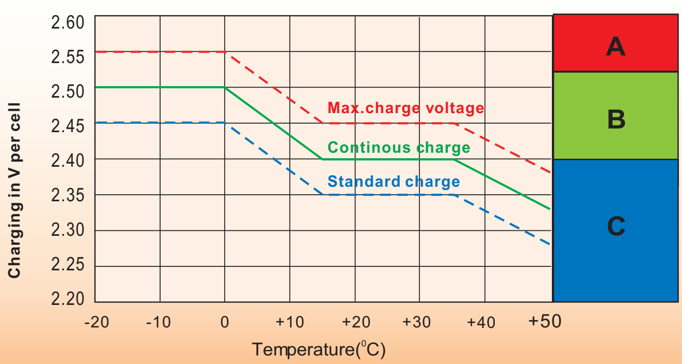


Cycle Service Life



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

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