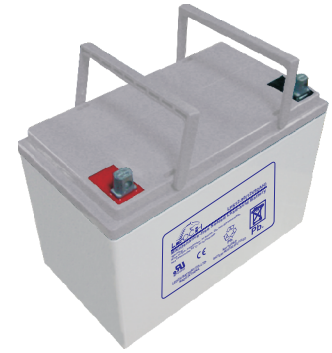


LPS SERIES-Solar Power

LPS12-90 (12V92AH)

Specification

Nominal Voltage	12V	
Nominal Capacity(100HR)	92.0AH	
Dimension	Length	259 ± 2mm (10.2 inches)
	Width	168 ± 2mm (6.61 inches)
	Container Height	208 ± 2mm (8.19 inches)
	Total Height (with Terminal)	228 ± 2mm (8.98 inches)
	Approx Weight	Approx 26.8 Kg (59.1 lbs)
Terminal	T9	
Container Material	ABS	
Rated Capacity	92.0 AH/0.92A	(100hr, 1.80V/cell, 25°C/77°F)
	84.0 AH/4.20A	(20hr, 1.80V/cell, 25°C/77°F)
	80.0 AH/8.00A	(10hr, 1.80V/cell, 25°C/77°F)
	69.8 AH/13.96A	(5hr, 1.75V/cell, 25°C/77°F)
	48.6 AH/48.6A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	900A (5s)	
Internal Resistance	Approx 6.0mΩ	
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 24.0A. Voltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°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 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.	



Applications

- ◆ Green energy systems (solar, wind, hydro, etc)
- ◆ Solar power stations
- ◆ Telecommunications installations
- ◆ Measurement stations
- ◆ Pump systems
- ◆ Signal station
- ◆ Survey and Mapping system
- ◆ Emergency lighting
- ◆ Railway crossing
- ◆ Traffic lights
- ◆ Street lightening
- ◆ Lawn lamp
- ◆ Street signs
- ◆ SOS pillars
- ◆ Alarm installations
- ◆ Weekend cottage camping
- ◆ Caravans
- ◆ Boats or buoys



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	91.0	75.6	58.7	46.5	37.6	24.5	18.5	15.2	12.8	8.95	7.66	4.07	1.83	0.90
1.80V/cell	100.9	83.2	63.4	49.4	39.7	26.1	19.5	15.9	13.5	9.39	8.00	4.20	1.86	0.92
1.75V/cell	111.9	91.1	68.2	52.8	42.8	27.3	20.6	16.6	14.0	9.67	8.17	4.29	1.89	0.93
1.70V/cell	122.3	99.5	74.9	55.1	45.2	28.8	21.6	17.3	14.5	10.0	8.43	4.37	1.91	0.94
1.65V/cell	129.5	105.0	78.9	58.6	46.8	29.8	22.4	17.9	15.0	10.3	8.62	4.48	1.95	0.95
1.60V/cell	141.9	114.0	83.8	60.7	48.6	31.0	23.1	18.5	15.6	10.6	8.81	4.58	1.98	0.96

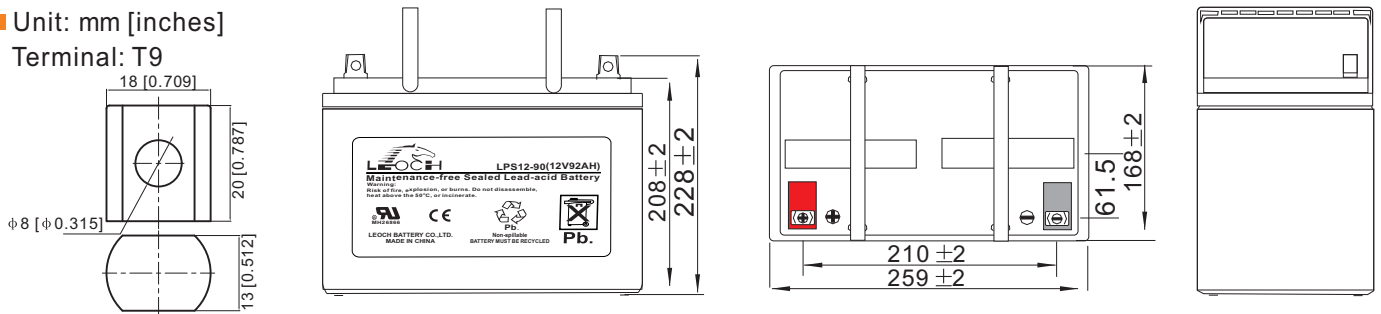
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	170.7	143.3	112.5	89.9	73.2	47.9	36.2	29.8	25.2	17.8	15.2	8.11	3.67	1.80
1.80V/cell	186.7	155.3	119.5	94.3	76.5	50.6	38.0	31.0	26.4	18.6	15.9	8.35	3.71	1.84
1.75V/cell	204.6	168.5	127.5	100.3	82.2	52.8	40.0	32.3	27.3	19.1	16.2	8.51	3.77	1.85
1.70V/cell	220.5	182.6	139.4	104.3	86.5	55.5	41.8	33.6	28.3	19.8	16.7	8.68	3.81	1.87
1.65V/cell	232.5	192.0	146.2	110.3	89.2	57.2	43.3	34.7	29.3	20.3	17.1	8.88	3.87	1.90
1.60V/cell	249.7	205.5	153.7	113.2	91.9	59.2	44.4	35.6	30.2	20.8	17.4	9.07	3.93	1.91

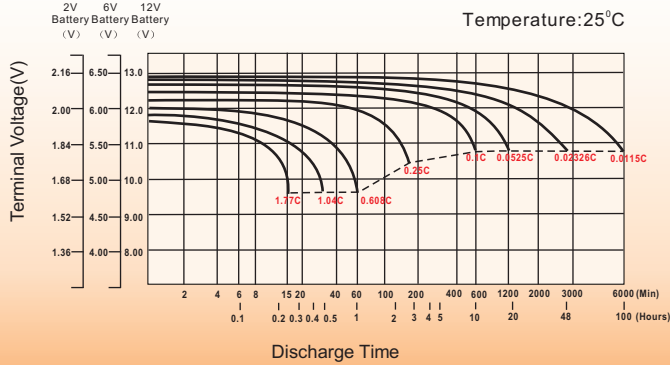
Dimensions

Unit: mm [inches]

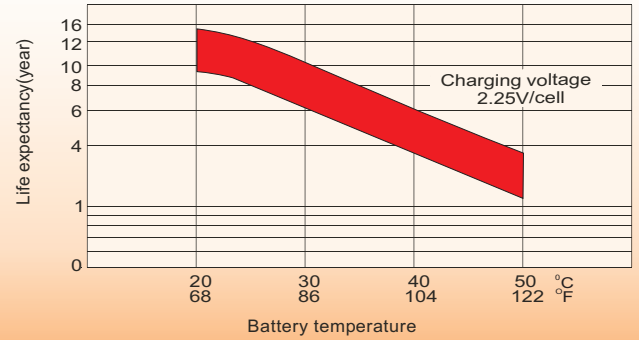
Terminal: T9



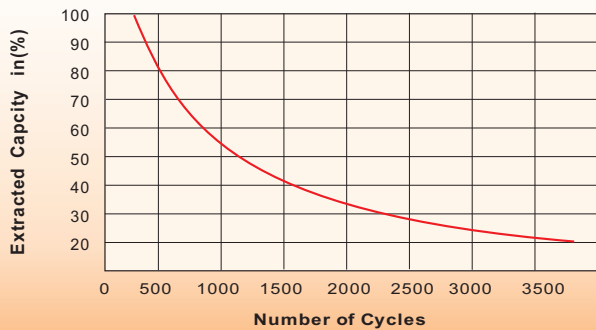
Discharge Characteristics



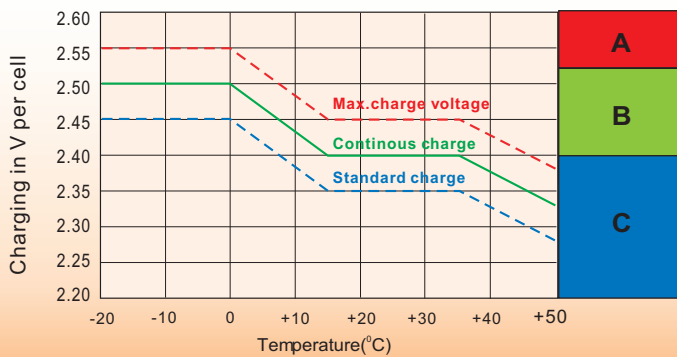
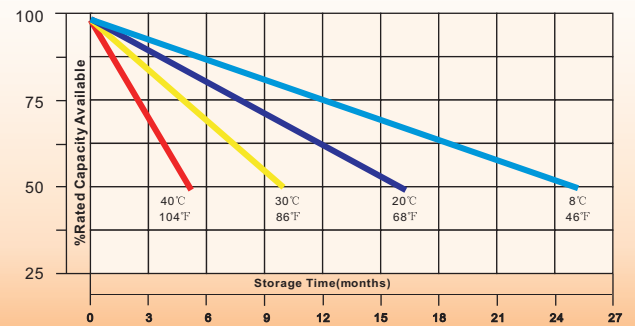
Effect of Temperature on Long Term Float Life



Cycle Service Life



Self-Discharge at Different Temperatures



Charge Mode

- A** With switch regulator (two-step controller) charge on curve max.charge voltage for max.2 hrs/day then switch over to continuous charge
- B** Standard charge without switching
- C** Boost charge (Equalizing charge with external generator) charge on curve continuous charge for max. 5 hrs/month, then switch over to curve Standard charge

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