LPS SERIES-Solar Power

LPS12-36 (12V36.8AH)

Specification

Nomial Voltage	12V	
Nomial Capacity(100HR)	36.8AH	
Dimension	Length	195±2mm (7.68 inches)
	Width	130±2mm (5.12 inches)
	Container Height	164±2mm (6.46 inches)
	Total Height (with Terminal)	180±2mm (7.09 inches)
Approx Weight	Approx 11.2 Kg (24.7lbs)	
Terminal	T5	
Container Material	ABS	
Rated Capacity	36.8AH/0.368A	(100hr ,1.80V/cell,25°C/77°F)
	33.6AH/1.68A	(20hr ,1.80V/cell,25°C/77°F)
	32.0AH/3.20A	(10hr,1.80V/cell,25°C/77°F)
	28.5AH/5.70A	(5hr,1.75V/cell,25°C/77°F)
	19.5AH/19.5A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	480A (5s)	
Internal Resistance	Approx 13.0mΩ	
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 than9.6A.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 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 (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	36.6	30.4	23.6	18.7	15.1	9.93	7.45	6.10	5.16	3.60	3.07	1.63	0.73	0.360
1.80V/cell	40.6	33.5	25.5	19.9	16.0	10.6	7.85	6.39	5.41	3.78	3.20	1.68	0.74	0.368
1.75V/cell	45.0	36.7	27.4	21.2	17.2	11.1	8.32	6.68	5.70	3.89	3.27	1.72	0.76	0.371
1.70V/cell	49.2	40.0	30.1	22.2	18.2	11.7	8.69	6.96	5.92	4.04	3.37	1.75	0.77	0.376
1.65V/cell	52.1	42.2	31.7	23.6	18.8	12.1	9.01	7.20	6.05	4.14	3.45	1.79	0.78	0.382
1.60V/cell	57.1	45.9	33.7	24.4	19.5	12.6	9.31	7.43	6.26	4.26	3.52	1.83	0.79	0.385

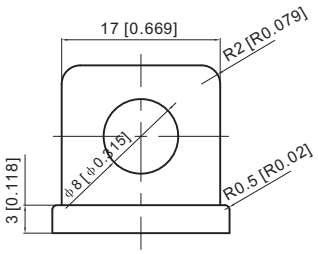
Constant Power Discharge (Watts) at 25 °C (77°F)

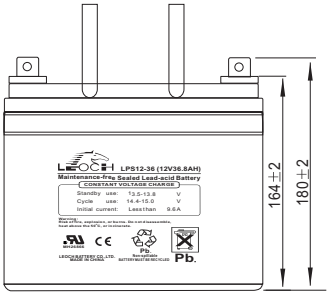
F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	69.0	57.9	45.5	36.3	29.6	19.47	14.7	12.0	10.2	7.18	6.13	3.26	1.47	0.724
1.80V/cell	75.5	62.8	48.3	38.1	30.9	20.6	15.4	12.6	10.7	7.51	6.39	3.36	1.49	0.739
1.75V/cell	82.7	68.1	51.6	40.5	33.2	21.5	16.2	13.1	11.2	7.72	6.52	3.42	1.51	0.744
1.70V/cell	89.2	73.9	56.4	42.2	35.0	22.6	16.9	13.6	11.6	8.00	6.72	3.49	1.53	0.752
1.65V/cell	94.0	77.7	59.1	44.6	36.1	23.3	17.5	14.0	11.8	8.20	6.86	3.57	1.56	0.763
1.60V/cell	101.0	83.1	62.1	45.8	37.1	24.1	18.0	14.4	12.2	8.40	7.00	3.64	1.58	0.769

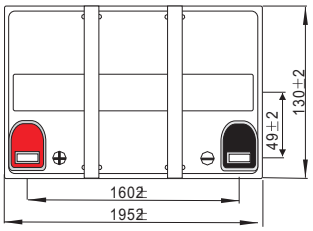
Dimensions

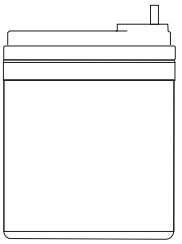
T5 Terminal

Unit: mm [inches]

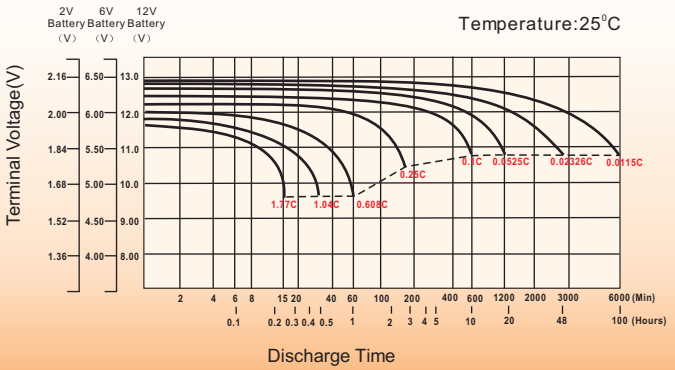




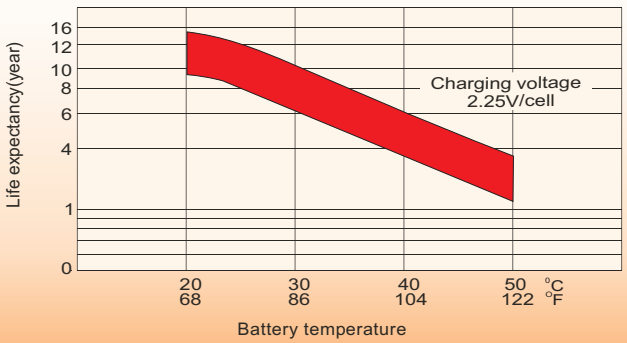




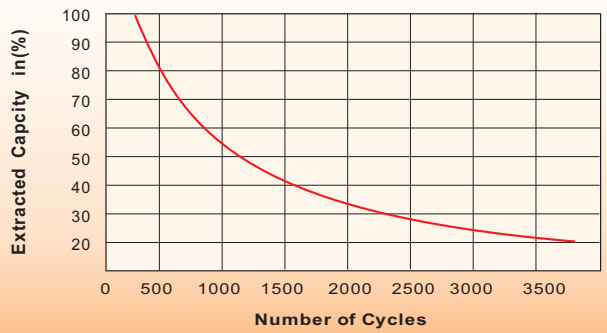
Discharge Characteristics



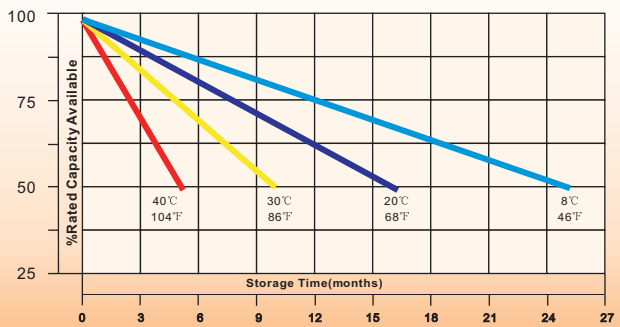
Effect of Temperature on Long Term Float Life

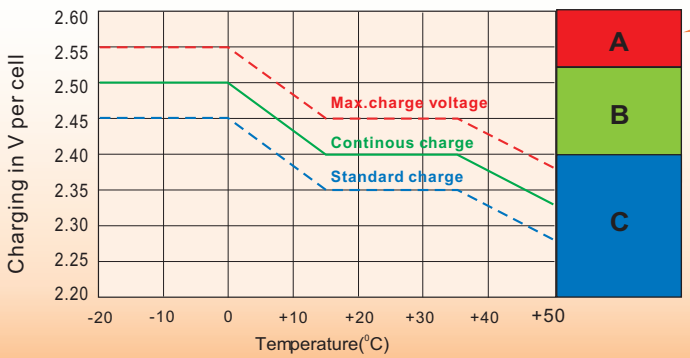


Cycle Service Life



Self-Discharge at Different Temperatures





Charge Mode

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

B Standard charge without switching

C Boost charge (Equalizing charge with external generator) charge on curve continous charge for max. 5 hrs/month, then switch over to curve Standard charge

Sales Office

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