LPS SERIES-Solar Power

LPS12-135 (12V138AH)

Specification

Nomial Voltage	12V	
Nomial Capacity(100HR)	138.0AH	
Dimension	Length	410±3mm (16.14 inches)
	Width	177±2mm (6.97 inches)
	Container Height	225±2mm (8.86 inches)
	Total Height (with Terminal)	225±2mm (8.86 inches)
Approx Weight	Approx 37.6 Kg (82.9 lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	138.0 AH/1.38A	(100hr ,1.80V/cell,25°C/77°F)
	126 AH/6.30A	(20hr ,1.80V/cell,25°C/77°F)
	120.0 AH/12.0A	(10hr,1.80V/cell,25°C/77°F)
	104.5 AH/20.9A	(5hr,1.75V/cell,25°C/77°F)
	72.9 AH/72.9A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	1300A (5s)	
Internal Resistance	Approx 4.0mΩ	
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 than36.0A.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 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	136.5	113.4	88.1	69.8	56.5	36.8	27.8	22.7	19.2	13.4	11.5	6.11	2.75	1.35
1.80V/cell	151.3	124.7	95.0	74.1	59.5	39.1	29.3	23.8	20.2	14.1	12.0	6.30	2.79	1.38
1.75V/cell	167.9	136.6	102.2	79.2	64.2	41.0	30.9	24.9	20.9	14.5	12.3	6.43	2.84	1.39
1.70V/cell	183.4	149.2	112.3	82.7	67.8	43.2	32.4	25.9	21.8	15.0	12.6	6.56	2.87	1.41
1.65V/cell	194.2	157.5	118.3	87.8	70.1	44.7	33.6	26.8	22.6	15.4	12.9	6.71	2.92	1.43
1.60V/cell	212.9	171.0	125.8	91.0	72.9	46.6	34.7	27.7	23.3	15.9	13.2	6.87	2.97	1.45

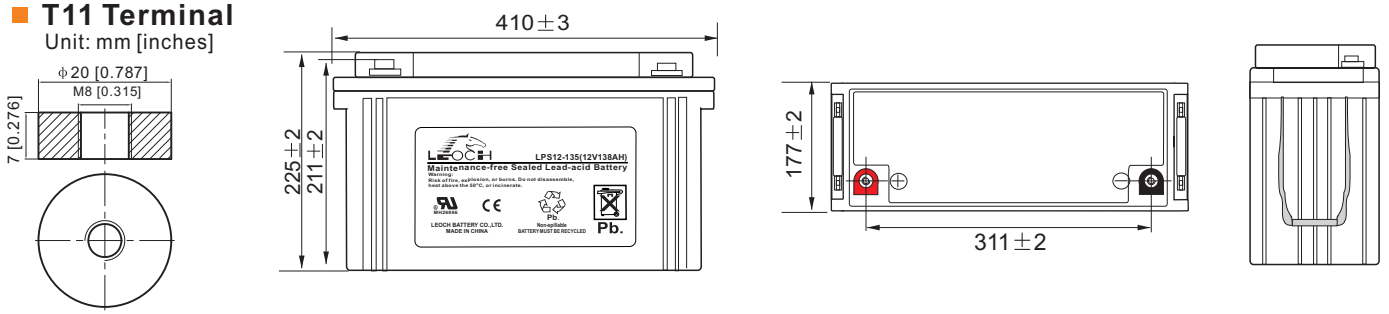
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	15min	20min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	48h	100h
1.85V/cell	256.1	214.9	168.8	134.8	109.8	71.8	54.4	44.7	37.9	26.6	22.9	12.2	5.50	2.71
1.80V/cell	280.1	232.9	179.3	141.4	114.8	75.9	57.0	46.6	39.6	27.9	23.8	12.5	5.57	2.76
1.75V/cell	306.9	252.7	191.3	150.4	123.2	79.2	60.0	48.5	40.9	28.6	24.3	12.8	5.65	2.77
1.70V/cell	330.7	273.9	209.0	156.5	129.7	83.2	62.8	50.4	42.5	29.7	25.1	13.0	5.71	2.81
1.65V/cell	348.8	288.0	219.3	165.4	133.7	85.9	64.9	52.1	43.9	30.4	25.6	13.3	5.80	2.85
1.60V/cell	374.6	308.2	230.5	169.8	137.8	88.7	66.7	53.4	45.2	31.1	26.1	13.6	5.90	2.87

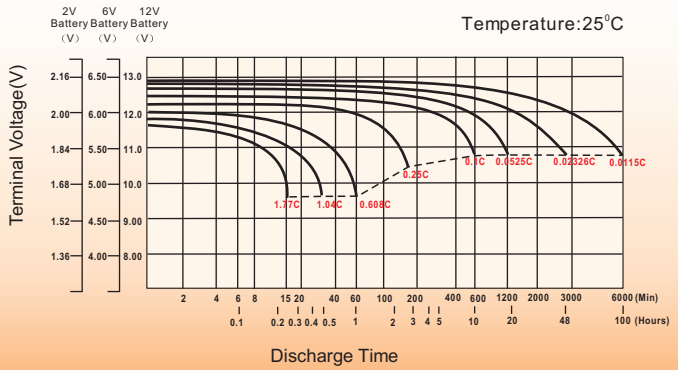
Dimensions

T11 Terminal

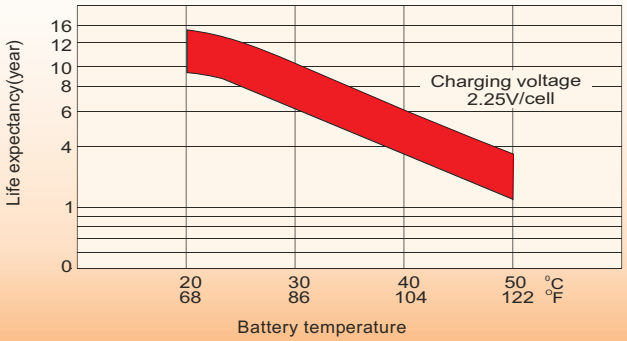
Unit: mm [inches]



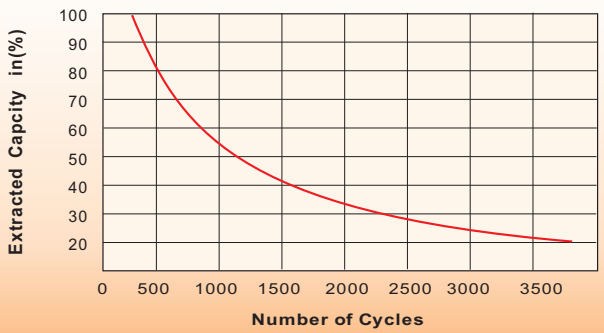
Discharge Characteristics



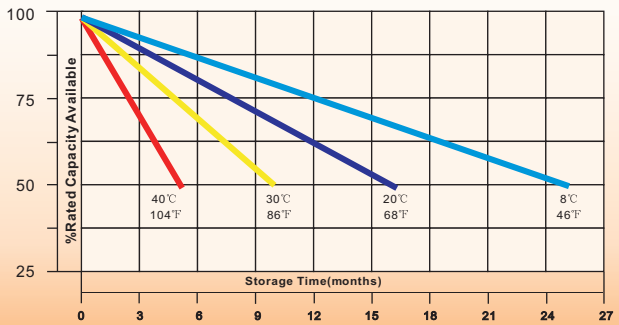
Effect of Temperature on Long Term Float Life

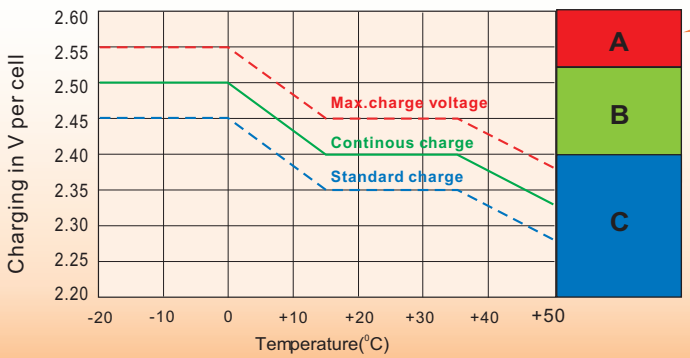


Cycle Service Life



Self-Discharge at Different Temperatures





Charge Mode

A With switch regulator (two-step controller) 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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