

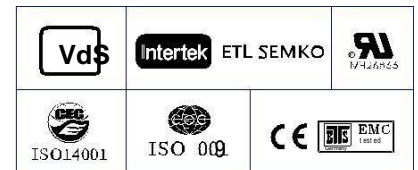


Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	35.0AH	
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 / T2 / T6 / T10	
Container Material	ABS	
Rated Capacity	35.0 AH/1.75A	(20hr, 1.80V/cell, 25 ⁰ C/77 ⁰ F)
	32.6 AH/3.26A	(10hr, 1.80V/cell, 25 ⁰ C/77 ⁰ F)
	29.7 AH/5.95A	(5hr, 1.75V/cell, 25 ⁰ C/77 ⁰ F)
	26.8 AH/8.93A	(3hr, 1.75V/cell, 25 ⁰ C/77 ⁰ F)
	22.0 AH/22.0A	(1hr, 1.60V/cell, 25 ⁰ C/77 ⁰ F)
Max. Discharge Current	525A (5s)	
Internal Resistance	Approx 11mΩ	
Operating Temp. Range	Discharge : -15 ~ 50 ⁰ C (5 ~ 122 ⁰ F)	
	Charge : 0~40 ⁰ C (32 ~ 104 ⁰ F)	
	Storage : -15~40 ⁰ C (5 ~ 104 ⁰ F)	
Nominal Operating Temp. Range	25±3 ⁰ C (77±5 ⁰ F)	
Cycle Use	Initial Charging Current less than 10.5A. Voltage	
	14.4V~15.0V at 25 ⁰ C(77 ⁰ F)Temp. Coefficient -30mV/ ⁰ C	
Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V	
	at 25 ⁰ C(77 ⁰ F)Temp. Coefficient -20mV/ ⁰ C	
Capacity affected by Temperature	40 ⁰ C (104 ⁰ F)	103%
	25 ⁰ C (77 ⁰ F)	100%
	0 ⁰ C (32 ⁰ F)	86%
Self Discharge	PowerStar batteries may be stored for up to 6 months at 25 ⁰ C(77 ⁰ F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	

Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply
- ◆ (UPS) Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system



Constant Current Discharge (Amperes) at 25⁰C (77⁰F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	66.7	51.2	42.4	36.7	28.3	20.9	17.6	10.4	8.14	6.62	5.40	4.69	3.78	3.16	1.73
1.80V/cell	89.5	65.4	51.2	43.3	33.4	24.3	19.7	11.4	8.76	7.07	5.80	5.03	4.01	3.26	1.75
1.75V/cell	100.9	71.9	56.0	46.6	34.7	25.2	20.6	11.8	8.93	7.23	5.95	5.16	4.08	3.34	1.77
1.70V/cell	111.1	78.3	59.7	49.0	36.1	26.2	21.3	12.1	9.17	7.42	6.10	5.27	4.13	3.41	1.80
1.65V/cell	122.5	84.5	63.5	52.0	38.1	26.9	21.8	12.3	9.57	7.68	6.27	5.39	4.20	3.48	1.82
1.60V/cell	135.1	91.8	67.9	55.4	40.3	28.0	22.0	12.8	9.86	7.92	6.48	5.50	4.24	3.52	1.83

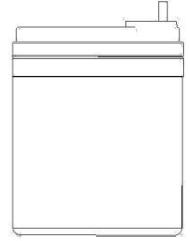
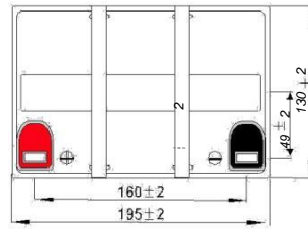
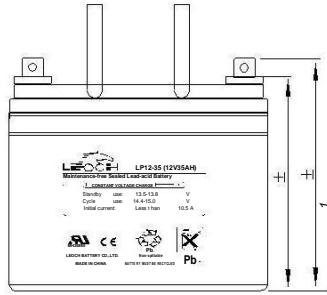
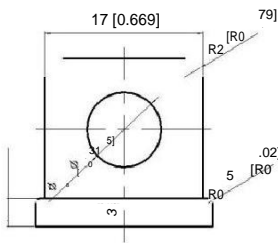
Constant Power Discharge (Watts) at 25⁰C (77⁰F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	121.9	94.5	79.1	69.1	54.0	40.1	34.0	20.2	15.9	12.9	10.6	9.21	7.46	6.25	3.43
1.80V/cell	161.8	119.4	94.3	80.5	62.8	46.3	37.8	21.9	17.0	13.7	11.3	9.84	7.89	6.43	3.46
1.75V/cell	178.6	129.1	101.7	85.8	64.6	47.6	39.4	22.6	17.2	14.0	11.6	10.1	8.01	6.60	3.49
1.70V/cell	191.2	137.5	107.1	89.4	66.9	49.3	40.5	23.2	17.7	14.4	11.8	10.3	8.11	6.72	3.55
1.65V/cell	207.9	147.0	113.0	94.3	70.0	50.1	41.1	23.4	18.4	14.8	12.1	10.5	8.22	6.85	3.60
1.60V/cell	224.0	156.0	118.9	99.4	73.4	51.9	41.3	24.2	18.8	15.2	12.5	10.7	8.28	6.91	3.61

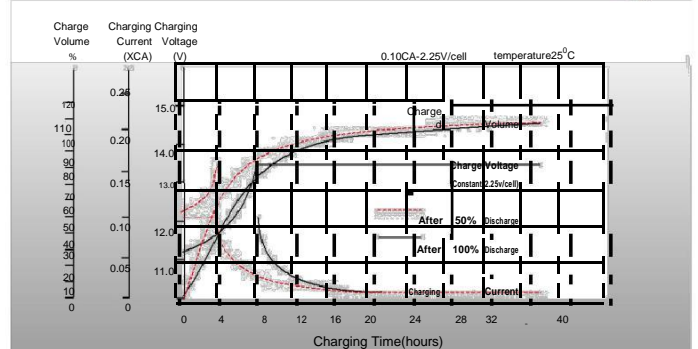
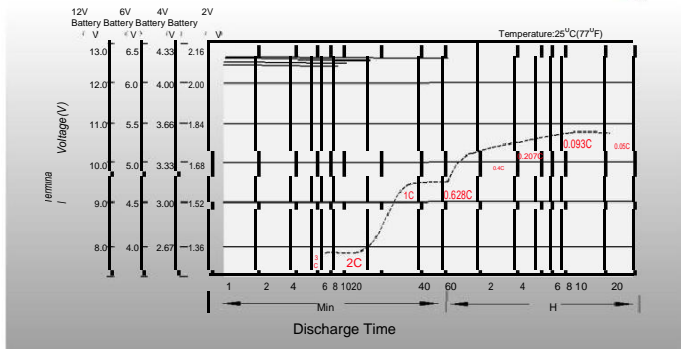


T5 Terminal

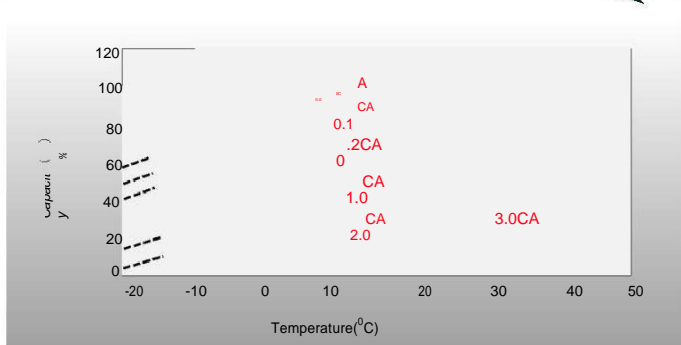
Unit: mm [inches]



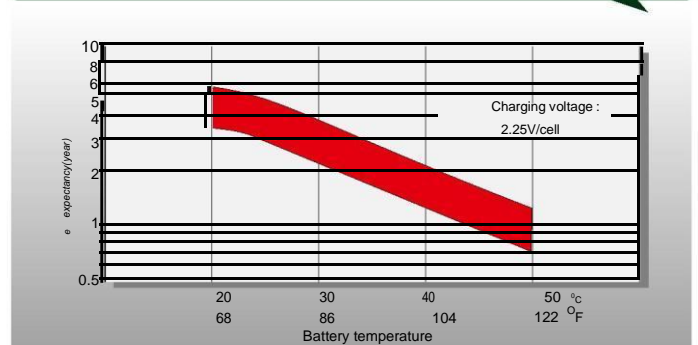
Discharge Characteristics



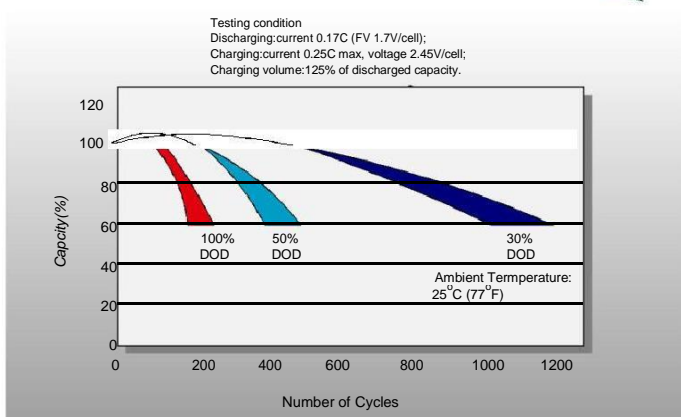
Temperature Effects in Relation to Battery Capacity



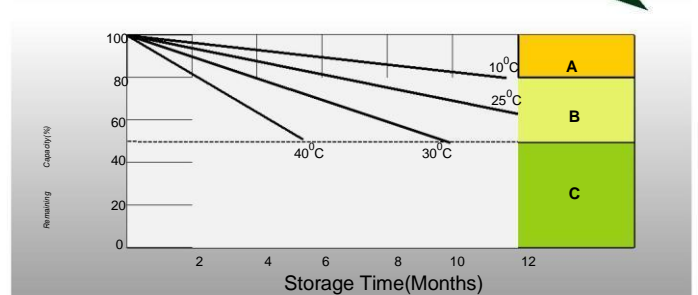
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



- No supplementary charge required**
- A** (Carry out supplementary charge before use if 100% capacity is required.) Supplementary charge required before use. Optional charging way as below: 1. Charged for above 3 days at limited current 0.25CA and constant volatge 2.25V/cell.
- B** 2. Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell. 3. Charged for 8-10hours at limited current 0.05CA . Supplementary charge may often fail to recover the capacity.
- C** The battery should never be left standing till this is reached.

Sales Office

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