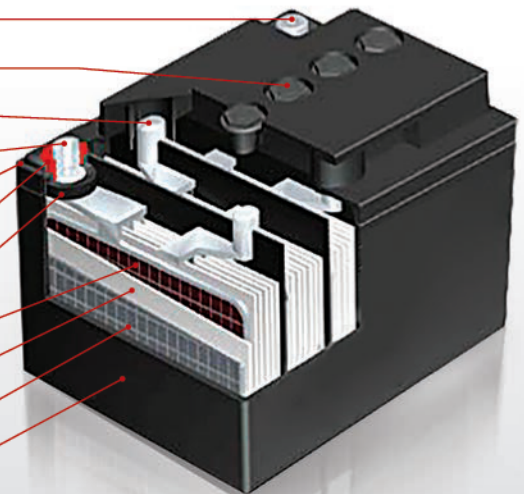


MAGNAVOLT®

Rechargeable Sealed Lead Acid Battery



1. Negative Terminal Post
2. Pressure Controlled Vent Valves
3. Inter-cell Connector
4. Positive Terminal Post
6. Container Cover
5. Sealing Compound Epoxy
7. Sealing O-Ring
8. Positive Plate
9. AGM Separator
10. Negative Plate
11. Case



Canada: 1-888-271-8888

www.magnacharge.com

USA: 1-844-370-0258

SLA Models and Parameters

Typical Applications

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

Model	Nominal Voltage (V)	Rated Capacity (AH)				Approx dimension (inch)				Approx Weight		Carton QTY	Terminal Type
		20HR	10HR	5HR	1HR	Length	Width	Height	Total Height	kg	lbs.		
		1.80V/cell	1.80V/cell	1.75V/cell	1.60V/cell								

6 VOLT

SLA6-1.2	6	1.20	1.12	1.02	0.75	3.82	0.94	2.03	2.26	0.29	0.64	30	T1
SLA6-2.8	6	2.80	2.60	2.38	1.76	2.60	1.30	3.82	4.06	0.57	1.26	20	T1
SLA6-3.2	6	3.20	2.98	2.72	2.01	5.28	1.34	2.36	2.60	0.67	1.48	20	T1
SLA6-4.5	6	4.50	4.19	3.83	2.83	2.76	1.85	3.98	4.17	0.81	1.79	20	T1
SLA6-7	6	7.50	6.98	6.38	4.71	5.94	1.34	3.70	3.94	1.26	2.78	8	T1/T2
SLA6-8.5	6	8.50	7.91	7.23	5.34	3.86	2.20	4.65	4.72	1.52	3.35	10	T1/T2
SLA6-12	6	12.00	11.16	10.20	7.54	5.94	2.01	3.70	3.94	1.95	4.30	8	T1/T2
SLA6-20	6	20.00	18.60	17.00	12.56	6.18	3.27	4.92	4.92	3.21	7.08	4	T3
SLA-6V27L	6	210.00	200.00	172.00	122.00	12.05	6.61	8.74	8.98	28.2	62.2	1	T8/T11

12 VOLT

SLA12-0.8	12	0.80	0.74	0.68	0.50	3.78	0.98	2.44	2.44	0.35	0.77	20	CONNECTOR
SLA12-1.2	12	1.20	1.12	1.02	0.75	3.82	1.69	2.05	2.28	0.57	1.26	20	T1
SLA12-2.3	12	2.30	2.14	1.96	1.44	7.01	1.38	2.36	2.60	0.78	1.72	20	T1
SLA12-3.5	12	3.20	2.98	2.72	2.01	5.28	2.64	2.38	2.62	1.35	2.98	10	T1
SLA12-4.5	12	4.50	4.19	3.83	2.83	3.54	2.76	3.98	4.21	1.48	3.26	10	T1/T2
SLA12-5	12	4.77	4.5	3.90	2.77	5.94	2.09	3.66	3.90	1.90	4.19	6	T1/T2
SLA12-5.4	12	5.40	5.00	4.60	3.39	3.54	2.76	3.98	4.21	1.88	4.15	10	T1
SLA12-7	12	7.20	6.70	6.12	4.52	5.94	2.56	3.68	3.90	2.35	5.18	8	T1/T2
SLA12-9	12	9.00	8.37	7.65	5.65	5.94	2.56	3.68	3.90	2.45	5.40	5	T1/T2/T3
SLA12-10	12	10.00	9.30	8.50	6.28	5.94	2.56	4.37	4.61	3.20	7.06	4	T1/T2
SLA12-12	12	12.70	12.00	10.04	7.38	5.94	3.86	3.74	3.98	3.80	8.38	4	T1/T2
SLA12-14	12	14.00	13.02	11.90	8.79	5.94	3.86	3.74	3.98	4.05	8.93	4	T1/T2
SLA12-18	12	19.10	18.00	15.60	11.10	7.15	3.03	6.59	6.59	5.70	12.57	2	T2
SLA12-20	12	20.00	18.90	17.20	13.10	7.15	3.03	6.59	6.59	6.00	13.23	2	T3/T12
SLA12-24	12	25.80	24	21.10	15.50	6.50	4.92	6.89	7.17	9.10	20.06	1	T3/T12
SLA12-28	12	28.00	26.04	23.80	17.58	6.54	6.89	4.92	4.92	8.40	18.50	1	T3/T12
SLA12-33	12	33.00	30.69	28.05	20.72	7.68	5.12	6.46	7.09	10.50	23.30	1	T5/T6/T12
SLA12-33G*	12	33.00	30.69	28.05	20.72	7.68	5.12	6.46	7.01	10.70	23.60	1	T5/T6
SLA12-38G*	12	38.00	35.30	30.40	20.90	7.76	6.50	6.69	6.69	13.50	29.80	1	T6
SLA12-45	12	45.00	42.00	36.50	26	7.76	6.50	6.69	6.69	14.50	32.00	1	T6/T12
SLA12-55	12	57.20	55.00	47.90	34.10	9.02	5.43	8.27	9.06	17.70	39.00	1	T6/T9/T14
SLA12-55G*	12	57.20	55.00	47.30	33.55	9.02	5.43	8.07	8.31	16.60	36.60	1	T6
SLA12-70G*	12	70.00	65.10	56.00	38.5	10.24	6.61	8.19	8.43	22.80	50.30	1	T6
SLA12-75	12	80.30	75.00	65.30	46.5	10.24	6.61	8.19	9.06	22.70	50.10	1	T6/T14
SLA12-90	12	96.30	90.00	78.30	55.80	12.05	6.61	8.15	8.98	62.40	28.30	1	T11
SLA12-100	12	107.00	100.00	87.00	62.00	12.99	6.81	8.35	8.66	32.00	70.60	1	T11
SLA12-150	12	160.50	150.00	130.50	93.00	19.02	6.69	9.39	9.39	47.20	104.10	1	T11
SLA12-200	12	214.00	200.00	174.00	124.00	20.55	9.45	8.58	8.82	64.00	141.10	1	T11
SLA12-250	12	260.00	250.00	215.00	152.50	20.55	10.06	8.66	8.90	73.00	161.00	1	T11

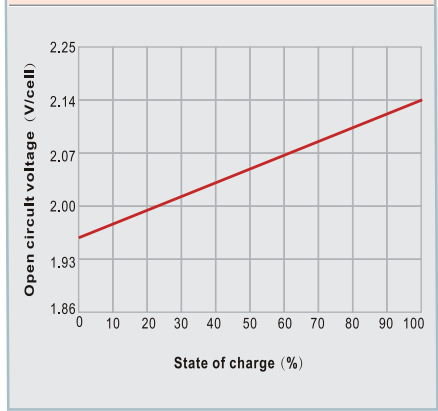
FEATURES

- Maintenance-free
- Sealed - valve regulated
- Spill proof / leak proof
- Deep discharge protection
- Plate grid - lead calcium alloy (PbCaSn)
- Corrosion free
- Vertical or horizontal installation
- Low gassing (unless overcharged)
- High cycling and stationary performance
- Engineered for high rate discharge
- Vibration resistance
- Long shelf life

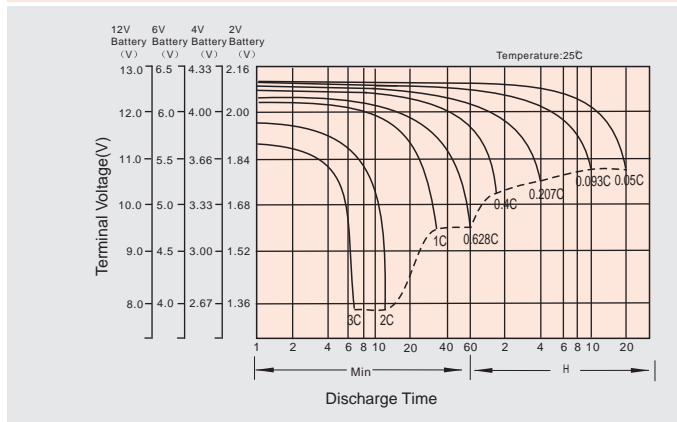
Charge Voltages and Temperature Ranges

Temp (°F)	Boost Charge (V/cell)		Float Charge (V/cell)		Temp (°C)
	Optimum	Maximum	Optimum	Maximum	
≥120	2.23	2.28	2.15	2.18	≥49
110-120	2.27	2.32	2.17	2.22	43-49
100-110	2.28	2.33	2.18	2.23	38-43
90-100	2.30	2.35	2.20	2.25	32-38
80-90	2.32	2.37	2.22	2.27	27-32
70-80	2.35	2.40	2.25	2.30	21-27
60-70	2.38	2.43	2.28	2.33	16-21
50-60	2.40	2.45	2.30	2.35	10-16
40-50	2.43	2.48	2.33	2.38	4-10
30-40	2.46	2.51	2.34	2.39	(-1)-4
20-30	2.49	2.54	2.36	2.41	(-6)-(-1)
10-20	2.53	2.58	2.38	2.43	(-12)-(-6)
≤10	2.58	2.63	2.39	2.44	≤-12

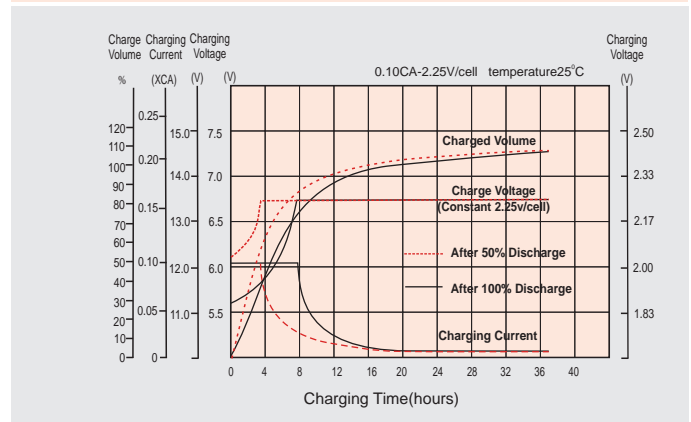
State of charge vs. Open circuit voltage



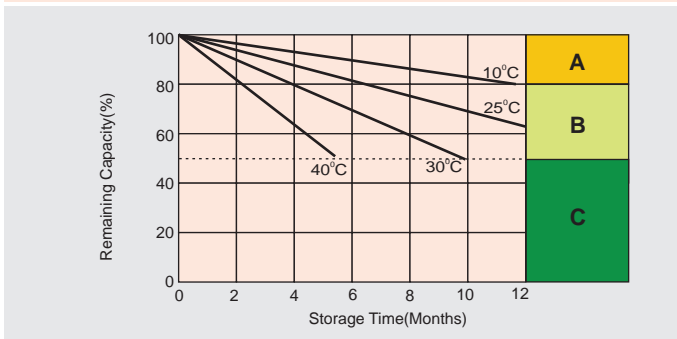
Discharge characteristics



Charging characteristics (standby use)

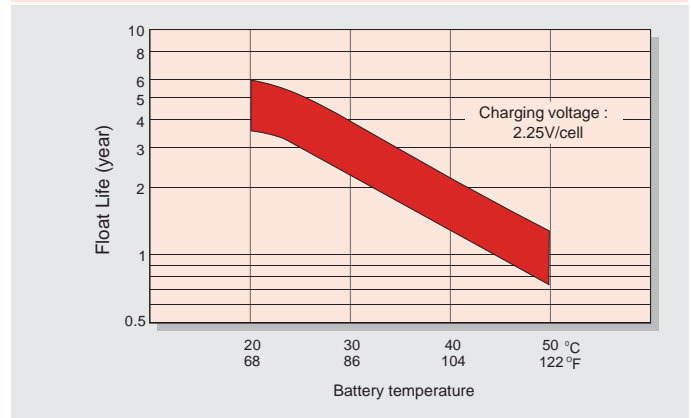


Self discharge characteristics

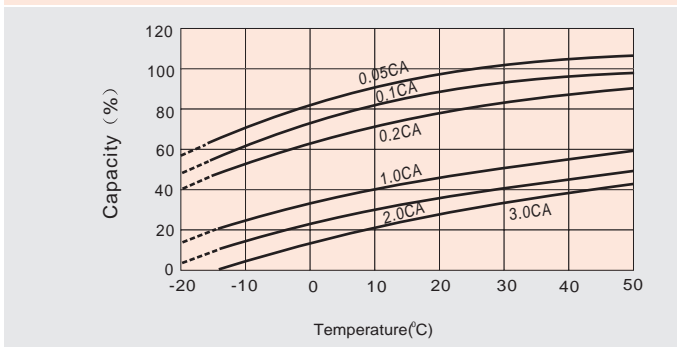


- A** No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. See charging options below:
 - 1.Charged for 3 plus (+) days at limited current 0.25CA and constant voltage 2.25V/cell.
 - 2.Charged for 20 plus (+) hours at limited current 0.25CA and constant voltage 2.45V/cell.
 - 3.Charged for 8-10hours at limited current 0.05CA .
- C** Discharged batteries may not recover full capacity. Batteries should never be left in a state of discharge.

Effect of temperature on long term float life



Temperature effects in relation to battery capacity



Cycle service life in relation to depth of discharge

