



SILICON BATTERY

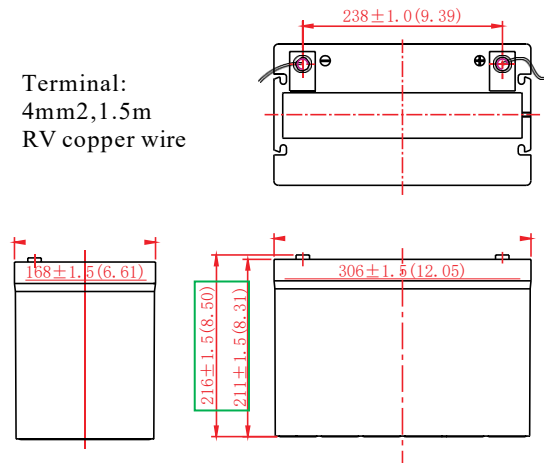
MAIN NEW ENERGY CO.,LTD

SUB-12V80AH

General Feature

- * Specialize in Solar Accumulation System
- * Excellent Deep-cycle performance
- * 80% DOD is more than 1000 cycles
- * Low internal resistance and low self-discharging
- * Operating Temperature:-40·C-70·C
- * Floating Charging Service Life: 10 years

Terminal:
4mm², 1.5m
RV copper wire



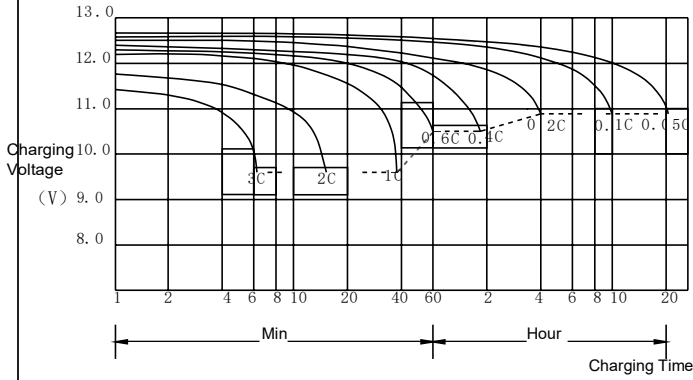
Specification

Normal Voltage	12V
Capacity	80Ah @ 10hr to 1.80V/cell @ 25°C(77°F)
Weight	26.0kg
Internal Resistance	Approx. 5.6mΩ
Operating Temperature Range	Discharging:- 40°C~70°C(-40°F~158°F) Charging:- 40°C~70°C(-40°F~158°F) Storage:- 40°C~50°C(-40°F~122
Recommended Operating Temperature	15°C~25°C(59°F~77°F)
Floating Charging Voltage	13.5V~13.8V @ 25°C(77°F)
Max Charging Current	27.0A
Equalization Charging Voltage	14.4V~15.0V @ 25°C(77°F)
Self Discharging	Residual Capacity is more than 90% after 90 days(25°C/77°F)
Terminal	1.5m,4mm ² ,RV Copper Core
Contain Materials	ABS

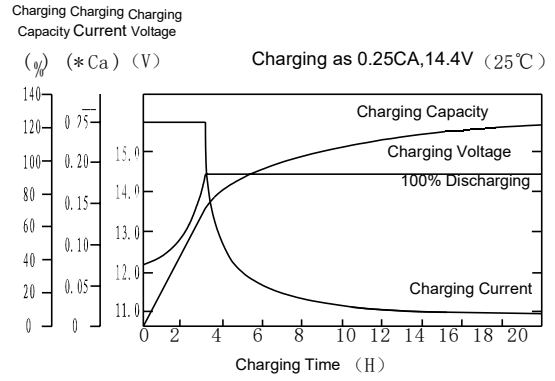
Cut-off Voltage	Constant Current Discharge Characteristics Unit: A (25°C, 77°F)														
	5M	15M	30M	45M	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	293	158	95.4	69.0	55.8	32.0	25.1	19.3	17.3	14.5	11.3	9.36	7.88	4.90	4.09
1.67V	275	152	93.6	68.6	55.5	31.9	24.7	19.2	17.1	14.5	11.2	9.27	7.80	4.85	4.05
1.70V	272	149	92.7	68.0	55.1	31.6	24.5	19.0	16.9	14.4	11.2	9.18	7.72	4.84	4.05
1.75V	250	144	91.8	67.6	54.3	30.8	24.2	18.8	16.7	14.3	10.9	9.09	7.72	4.83	4.05
1.80V	224	135	87.7	64.8	52.8	30.5	24.0	18.7	16.3	14.0	10.8	9.00	7.66	4.78	4.04
1.83V	214	123	86.0	62.6	50.6	30.2	23.2	17.9	15.8	13.6	10.7	8.67	7.35	4.77	3.98
1.85V	201	120	79.8	60.1	49.0	29.0	22.6	17.6	15.4	13.2	10.4	8.60	7.31	4.68	3.94

Cut-off Voltage	Constant Power Discharge Characteristics Unit: W (25°C, 77°F)														
	5M	15M	30M	45M	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	527	298	185	140	113	65.1	47.6	37.7	31.8	27.5	21.2	17.5	14.7	9.36	7.88
1.67V	508	293	185	139	113	65.0	47.0	37.6	31.8	27.3	21.1	17.3	14.7	9.36	7.88
1.70V	505	289	185	139	113	64.7	46.9	37.5	31.3	27.0	21.0	17.2	14.6	9.36	7.86
1.75V	477	287	184	139	111	64.4	46.4	37.4	31.3	26.9	20.8	17.1	14.5	9.36	7.86
1.80V	437	271	179	135	111	64.2	46.4	37.4	30.8	26.7	20.7	17.1	14.5	9.36	7.84
1.83V	424	248	177	131	105	63.4	45.3	36.0	30.2	25.9	20.5	16.7	14.0	9.27	7.79
1.85V	401	242	165	126	103	61.3	44.0	35.6	29.4	25.4	19.9	16.5	13.9	9.09	7.72

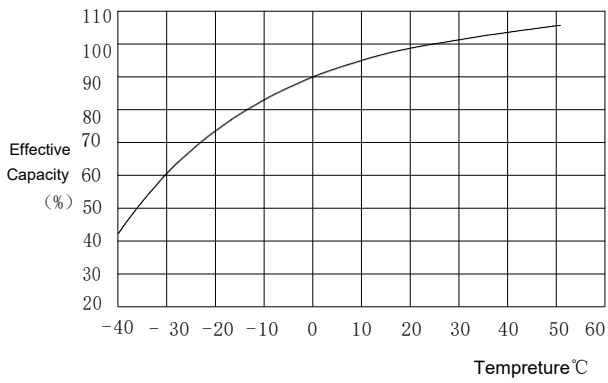
Discharging Characrictic (25°C, 77°F)



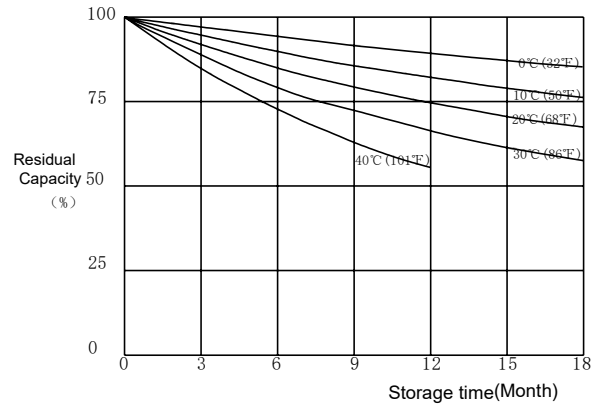
Charging Characteristics Curves



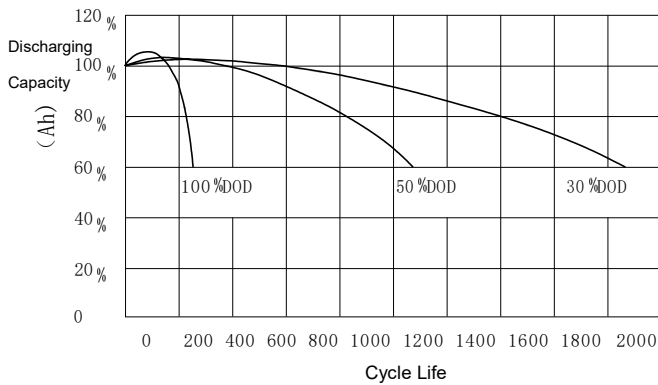
Tempreture Vs Capacity



Self-Discharge Characteristics



Recycle Life



Tempreture VS Float Life

