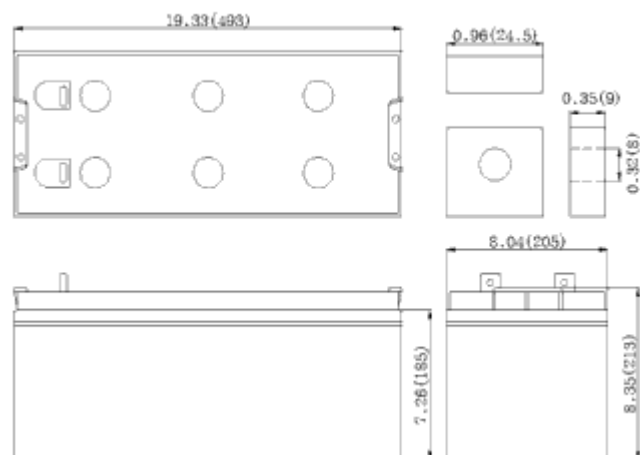


Vertical Standing Design Solar Storage Battery



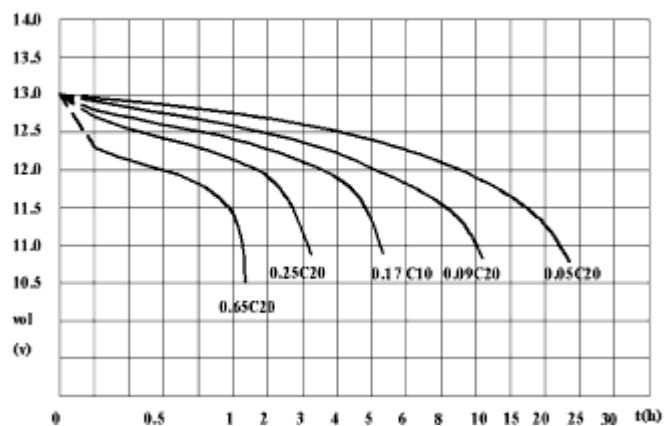
UNIT: inch (mm)



Specifications

Rated Voltage	12V	
Rated Capacity(Ah)	C ₂₀ , V _t =1.75v/cell	180
Dimensions inches(min)	Length (L)	493mm
	Width (W)	205mm
	Height (h)	241mm
	Total height (H)	241mm
1Hr Rate AH	117	
3Hr Rate AH	137	
5Hr Rate AH	146	
20Hr Rate AH	180	
Weight lbs(kg)	99.5(45.5)	

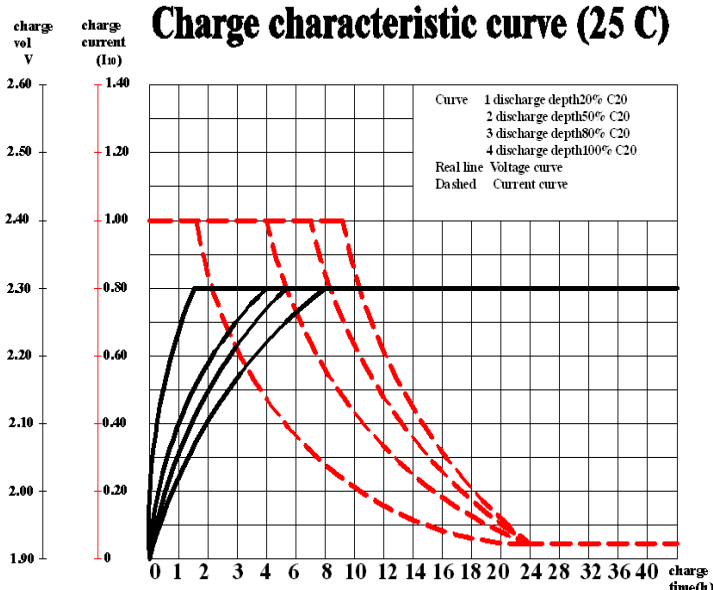
Discharge characteristic at different rates(25°C)



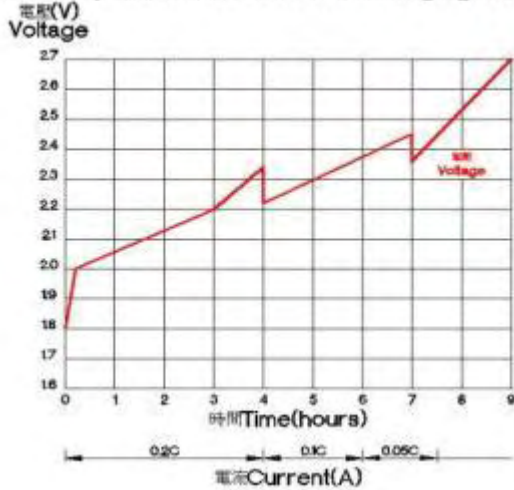
Characteristics

Required Ambient Temperature	-20°C~50°C
Prime Ambient Temperature	25°C
Float Charge Voltage	2.30V/cell
Balancing Charge Voltage	2.45V/cell
Internal Resistance	4.0MΩ
Deep Cycle Life	≥600cycles (80%DOD)
Maximal Charge Current	45AC20
Designed Life	15years/25°C
Float Charge Life	6~8years/25°C
Self-discharge	≤3%/month,25°C
Design life	7years

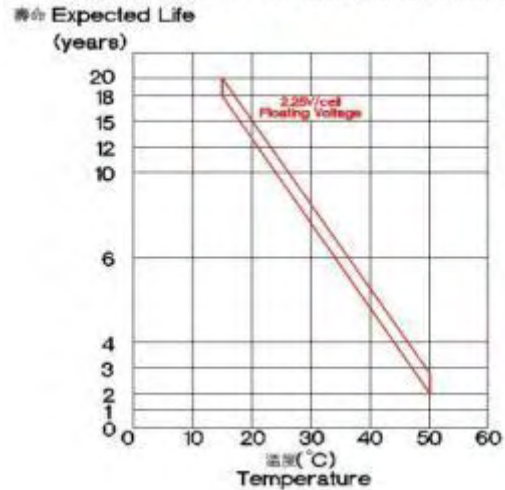
Charge characteristic curve (25°C)



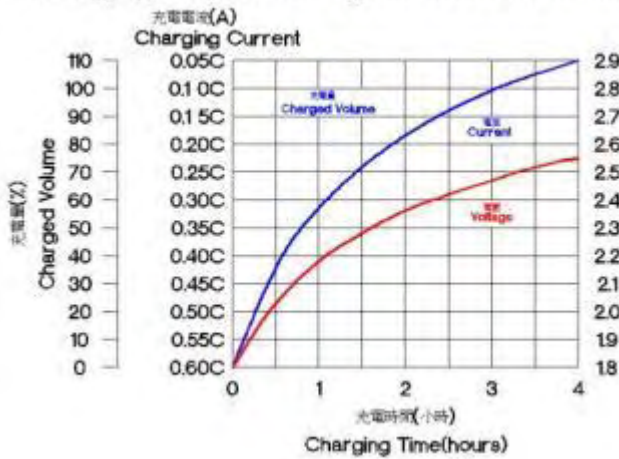
Multistep Constant Current Charging Curves



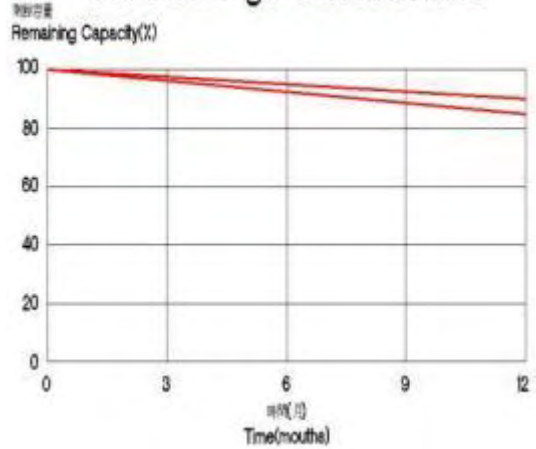
Float Life Characteristics



Charging curves for Cycle Use Batteries



Self Discharge Characteristics



Amperes per battery @ 25°C

TIME	1min	5min	20min	30min	35min	40min	45min	60min	1hr	2hr	3hr	5hr	8hr	10hr	20hr
FV:															
1.60V	856.8	543.6	286.2	239.4	216.0	194.4	180.0	162.0	126.0	72.0	50.4	32.0	22.1	18.4	10.1
1.65V	754.2	498.6	266.4	226.8	201.6	183.6	169.2	154.8	122.4	71.1	49.8	31.7	21.6	18.0	9.9
1.70V	684.0	478.8	250.2	216.0	194.4	176.4	162.0	151.2	118.8	69.3	48.6	31.0	21.2	16.9	9.4
1.75V	599.4	453.6	237.6	207.0	189.0	169.2	154.8	144.0	117.0	65.7	45.6	29.2	20.7	16.2	9.0
1.80V	531.0	410.4	217.8	196.2	176.4	162.0	147.6	140.4	113.4	63.0	45.0	28.4	20.0	15.8	8.8
1.83V	495.0	378.0	181.8	167.4	162.0	140.4	126.0	120.6	108.0	62.1	42.6	26.6	19.6	14.8	7.2

Watt per battery @ 25°C

TIME	1min	5min	20min	30min	35min	40min	45min	60min	1hr	2hr	3hr	5hr	8hr	10hr	20hr
FV:															
1.60V	8996.4	5707.8	3148.2	2753.1	2484.0	2235.6	2070.0	1863.0	1449.0	842.4	589.7	384.5	264.6	220.3	121.0
1.65V	7919.1	5235.3	2930.4	2608.2	2318.4	2111.4	1945.8	1780.2	1407.6	831.9	582.7	380.2	259.2	216.0	118.8
1.70V	7182.0	5027.4	2752.2	2484.0	2235.6	2028.6	1863.0	1738.8	1366.2	810.8	568.6	371.5	253.8	203.0	112.3
1.75V	6293.7	4762.8	2613.6	2380.5	2173.5	1945.8	1780.2	1656.0	1345.5	768.7	533.5	349.9	248.4	194.4	108.0
1.80V	5575.5	4309.2	2395.8	2256.3	2028.6	1863.0	1697.4	1614.6	1304.1	737.1	526.5	341.3	240.3	190.1	105.8
1.83V	5197.5	3969.0	1999.8	1925.1	1863.0	1614.6	1449.0	1386.9	1242.0	726.6	498.4	319.7	234.9	177.1	86.4