

Discharge current and end voltage	
Discharge current (A)	End voltage (V)
0.05C or below or Intermittent discharge	11.4
0.05C of current close to it	11.1
0.1C of current close to it	10.8
0.2C of current close to it	10.5
From 0.2C to 0.5C	10.2
From 0.5C to 1C	9.6
From 1C to 3C	9.0
Current in excess of 3C	7.8

Specification		
Nominal Voltage	12V	
Rated Capacity (10 hour rate)	100AH	
Dimension	Total Height (Top of terminals)	221mm (8.7 inches)
	Height	216mm (8.5 inches)
	Length	330mm (12.99 inches)
	Width	172mm (6.77 inches)
Weight	Approx. 30kg (66.08 lbs)	
Capacity (20°C)	120 hour rate(1.2A)	120AH
	20 hour rate(5.5A)	110AH
	10 hour rate(10A)	100AH
Internal Resistance	Fully charged Battery (20°C)	6mΩ
Self-Discharge (20°C)	Capacity after 3 month Storage	95%
	Capacity after 6 month Storage	85%
	Capacity after 12 month storage	80%
Max Discharge Current (20°C)	1000A(5S)	
Terminal	Standard	F3
	Optional	
Charging (Constant Voltage)	Cycle	Initial Charging Current 20A or smaller 14.4V~14.8V/ (20°C)
	Float	13.5V~13.8V/ (20°C)

Betta Batteries 12V Battery Temperature compensation guide		
Temp	Charging (Constant Voltage)	
	Cycle	Float
20°C - 30°C	14.4V - 14.8V	13.5V - 13.8V
31°C - 40°C	14.25V - 14.65V	13.35V - 13.65V
41°C - 45°C	14.1V - 14.5V	13.2V - 13.5V

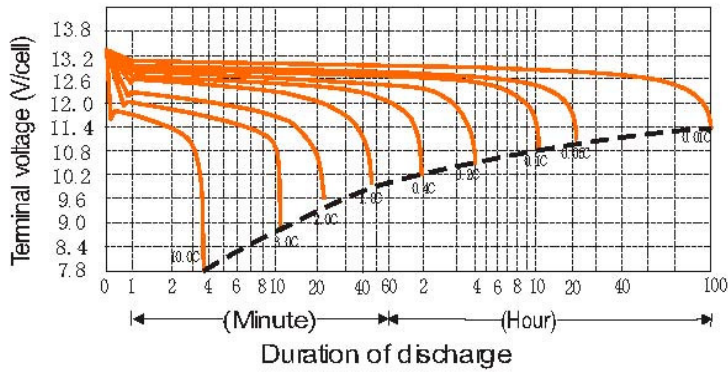
Constant Current Discharge Characteristics: Units Amperes (20°C)

End voltage per cell	5min	15min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	270.24	172.40	113.60	85.50	69.90	41.70	30.30	23.55	20.00	17.20	13.00	10.50	8.85	5.53	4.63
1.67V	232.60	156.30	105.30	81.00	67.70	39.80	28.80	23.30	19.00	17.00	12.80	10.30	8.85	5.53	4.63
1.70V	222.20	151.50	102.00	80.00	65.40	39.20	28.20	23.10	18.90	16.90	12.70	10.20	8.85	5.52	4.62
1.75V	202.00	141.80	98.00	76.90	63.30	37.70	27.40	22.50	18.30	16.50	12.50	10.10	8.77	5.52	4.61
1.80V	178.60	129.90	94.30	74.10	60.60	36.40	27.00	22.10	17.90	16.10	12.20	10.00	8.58	5.50	4.59
1.83V	155.90	118.70	87.10	68.87	57.30	34.80	26.00	21.20	17.10	15.50	11.80	9.70	8.35	5.48	4.46
1.85V	133.30	107.50	80.00	63.70	54.10	33.30	25.00	20.40	16.40	15.00	11.40	9.43	8.11	5.47	4.33

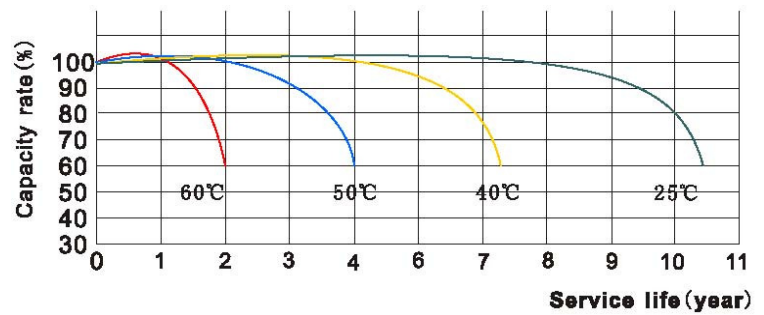
Discharge Data with Constant Power Units: Watts per cell (20°C)

End voltage per cell	5min	15min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	12h	20h	24h
1.60V	448.10	301.70	206.50	157.40	130.40	79.60	58.00	45.10	38.40	33.70	25.50	20.78	17.40	10.80	9.06
1.67V	400.30	281.30	193.30	150.60	127.00	77.12	56.60	44.90	37.20	33.30	25.00	20.30	17.40	10.80	9.06
1.70V	387.39	274.00	188.00	149.00	123.40	75.10	54.30	44.60	36.50	33.10	24.91	20.10	17.40	10.80	9.05
1.75V	357.60	257.60	181.80	144.40	120.00	72.60	53.00	43.90	35.60	32.60	24.40	19.90	17.40	10.80	9.04
1.80V	324.20	237.40	175.60	139.80	115.50	70.20	52.40	43.10	34.70	32.10	24.00	19.70	16.90	10.70	9.02
1.83V	286.30	219.80	164.00	131.00	109.70	67.60	50.60	41.70	33.50	31.20	23.20	19.20	16.50	10.70	8.79
1.85V	248.40	202.19	152.40	122.20	104.00	65.00	48.80	40.20	32.20	30.30	22.40	18.70	16.10	10.60	8.57

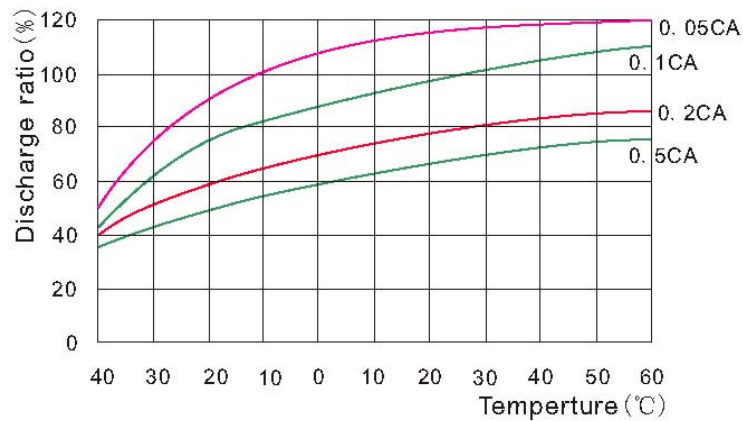
Charge characteristics (20°C)



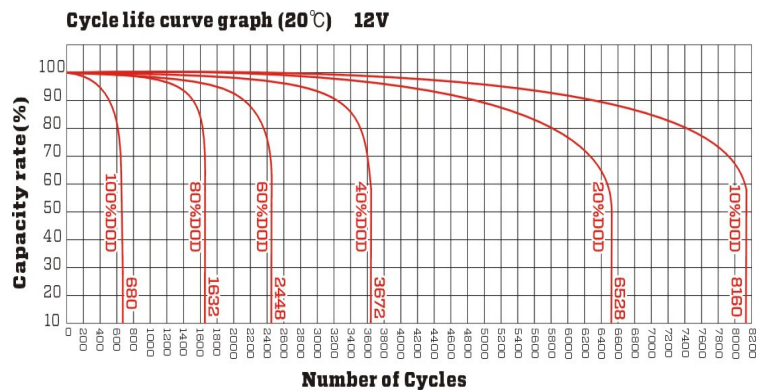
Temperature and float service life



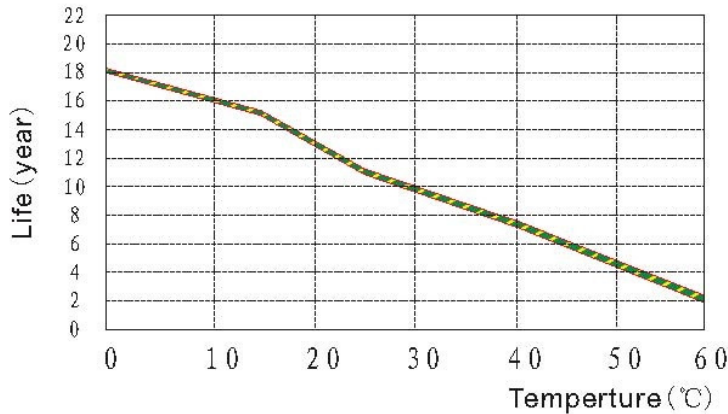
Temperature and discharge capacity



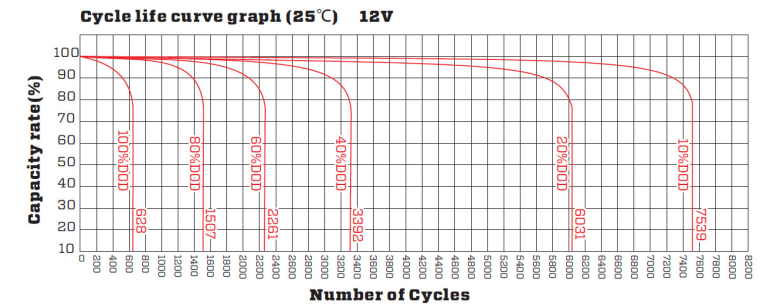
Cycle life curve graph (20°C)



Float service life curve graph



Cycle life curve graph (25°C)



Cycle life curve graph (40°C)

