



DC12-200 12V200AH

DC SERIES-Deep Cycle Battery



Specification

Nominal Voltage	12V	
Nominal Capacity(10HR)	200AH	
Dimension	Length	522 ± 3mm (20.55 inches)
	Width	240 ± 2mm (9.45 inches)
	Container Height	219 ± 2mm (8.62 inches)
	Total Height (with Terminal)	244 ± 2mm (9.60 inches)
Approx Weight	Approx 57Kg (125.78lbs)	
Terminal	T11	
Container Material	ABS	
Rated Capacity	214.4 AH/10.7A	(20hr ,1.80V/cell,25°C/77°F)
	200.0 AH/20.0A	(10hr,1.80V/cell,25°C/77°F)
	175.4 AH/35.1A	(5hr,1.75V/cell,25°C/77°F)
	159.0 AH/53.0A	(3hr,1.75V/cell,25°C/77°F)
	129.2 AH/129.2A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	2000A (5s)	
Internal Resistance	Approx 2.7mΩ	
Operating Temp.Range	Discharge	-15 ~50°C (5 ~122°F)
	Charge	0 ~40°C (32 ~104°F)
	Storage	-15 ~40°C (5 ~104°F)
Nominal Operating Temp. Range	25 ± 3° C (77 ± 5° F)	
Cycle Use	Initial Charging Current less than 60A.Voltage	
	14.4V~14.9V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage	
	13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104 °F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	DC series batteries may be stored for up to 6 months at 25°C(77°F) and battery should be recharged before use. For higher temperatures the time interval will be shorter.	

Applications

- ◆ Solar Systems

Constant Current Discharge (Amperes) at 25 °C (77 °F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	292.8	246.4	215.3	154.9	123.0	99.9	62.0	48.4	39.2	31.8	27.8	22.7	18.9	10.62
1.80V/cell	374.2	297.7	254.5	182.8	143.1	111.9	67.7	52.0	41.8	34.2	29.8	24.0	20.0	10.72
1.75V/cell	411.1	325.2	273.8	189.8	148.5	117.0	70.2	53.0	42.8	35.1	30.6	24.5	20.2	10.82
1.70V/cell	448.1	347.2	287.7	197.5	154.4	120.7	73.0	54.5	43.9	36.0	31.2	24.8	20.4	11.02
1.65V/cell	483.6	369.2	305.7	208.4	158.3	124.8	75.0	56.8	45.4	37.0	31.9	25.2	20.8	11.16
1.60V/cell	\	394.8	325.6	220.0	165.0	129.2	77.6	58.5	46.8	38.2	32.6	25.4	21.0	11.22

Constant Power Discharge (Watts) at 25 °C (77 °F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	546.3	464.5	410.3	297.7	238.1	193.8	120.9	94.5	76.7	62.5	54.9	44.8	37.4	21.3
1.80V/cell	688.8	552.9	477.6	347.1	274.6	215.8	131.1	101.2	81.5	66.9	58.6	47.5	39.6	21.4
1.75V/cell	747.5	598.1	509.6	358.5	283.6	224.9	135.6	102.8	83.2	68.6	60.1	48.3	40.0	21.6
1.70V/cell	803.4	633.9	532.5	371.7	294.1	231.5	140.7	105.4	85.2	70.1	61.3	48.9	40.3	22.0
1.65V/cell	860.8	669.7	563.0	390.3	300.3	238.5	144.2	109.6	87.9	72.0	62.6	49.6	41.1	22.2
1.60V/cell	\	707.6	593.6	408.1	310.2	244.9	148.1	112.4	90.3	74.0	63.8	50.0	41.5	22.3

Note The above data are average values, and can be obtained with 3 charge/discharge cycles. These are not minimum values.



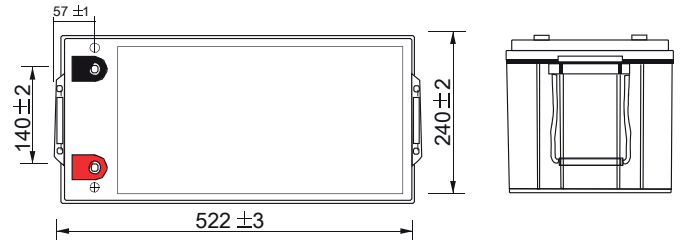
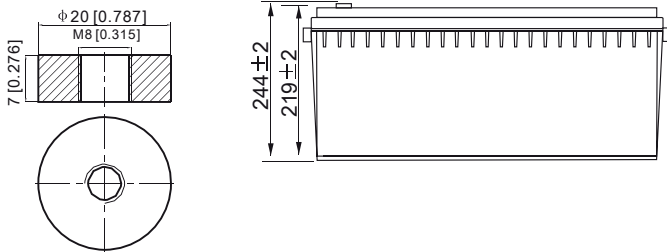
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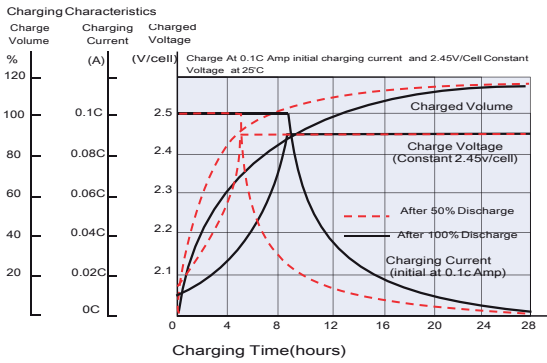
Dimensions

T11 Terminal

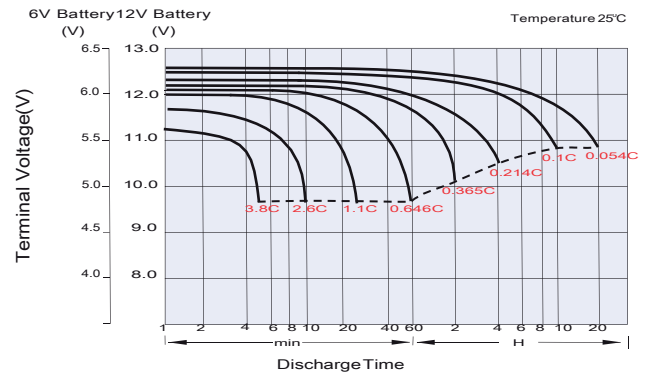
Unit: mm [inches]



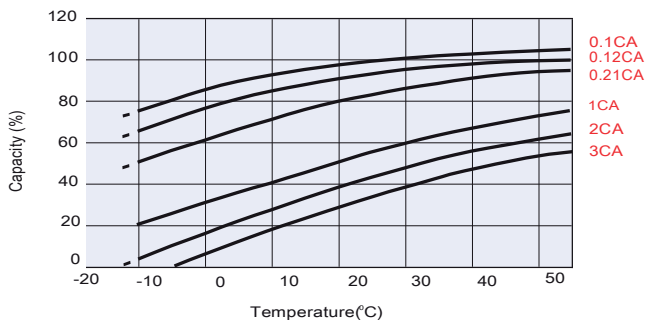
Charging Characteristics (cycle use)



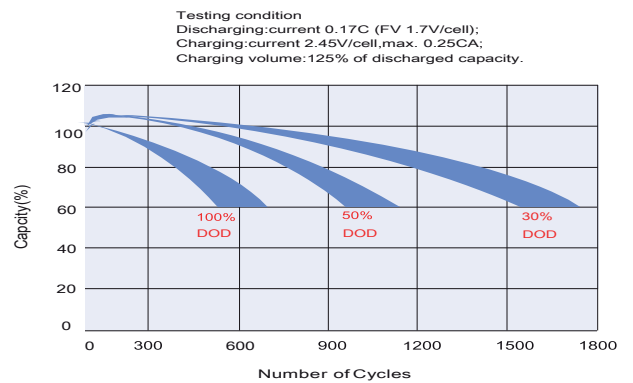
Discharge Characteristics



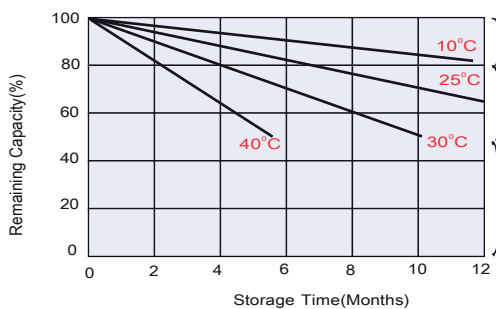
Temperature Effects in Relation to Battery Capacity



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



No supplementary charge required
(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 voltage 2.25V/cell.
2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
3. Charged for 8~10 hours at limited current 0.05CA.

Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.