



LEAD-CARBON







12V / 200Ah

The LRC12-200 offers an extremely high cyclic performance, being engineered using Lead Carbon technology. This model can be used for the energy storage system of mobile containers, peak load shifting, load tracking, oil and electricity, grid frequency adjustment, new energy communication base station (IDC, UPS etc.), and new energy generation (solar, wind etc.)

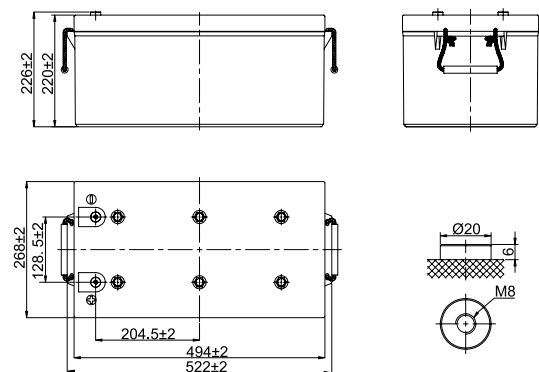
SPECIFICATIONS

Model	LRC-12-200
Rated Voltage	12V
Nominal Capacity	200Ah (C ₁₀ , 1.80V/cell)
Short Circuit Current	2007A
Max. Discharging Current	100.0A
Max. Charging Current	40.0A
Rated Capacity (25°C)	
200Ah	(10hr, 20.0A, 1.80V/cell)
179 Ah	(5hr, 35.8A, 1.75V/cell)
155.7 Ah	(3hr, 51.9A, 1.75V/cell)
Self Discharge	≤3.5% per month at 25°C
Operating Temp. Range	
Discharge	-20°C ~ 55° C (-4°F-131°F)
Charge	-20°C ~ 40°C (-4°F-104°F)
Storage	-20° ~ 50°C (-4°F-122°F)
Charge Voltage (25°C)	
Cycle (Equalization)	2.30 ~ 2.40V/cell
Temp. Coefficient	-4mV/cell/°C
Internal Resistance (25°C)	Approx. 4.0mΩ
Nominal Operating Temp. Range	25 ± 3°C (77 ± 5°F)
Effect of temp. to Capacity	
40°C (104°F)	106%
25°C (77°F)	100%
0°C (32°F)	86%
Dimension	
Length	522 ± 2mm (20.6in.)
Width	268 ± 2mm (10.6in.)
Container Height	220 ± 2mm (8.66in.)
Total Height	226 ± 2mm (8.90in.)
Approx. Weight	75.6Kg (166.7lbs)
Terminal	M8
Container Material	ABS

FEATURES

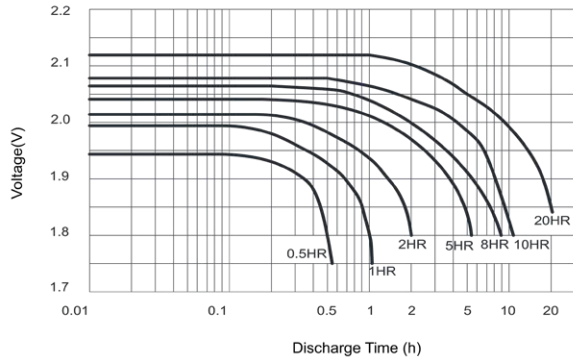
-  Design life ≥ 12 years
-  Super carbon & Deep cycle technology
-  Super fast charge & Large discharge performance
-  Modular design
-  Robust design for high safety and reliability
-  Horizontal installation
(solving the problem of electrolyte stratification)

LAYOUT

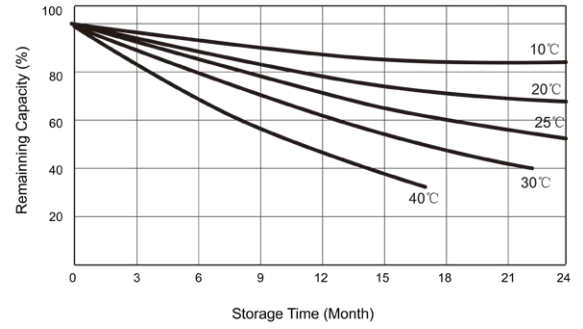


CHARACTERISTICS

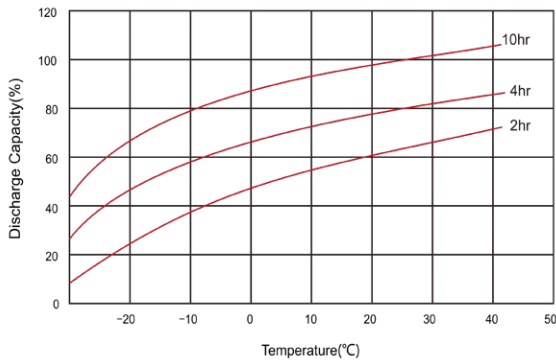
Discharge (V/h)



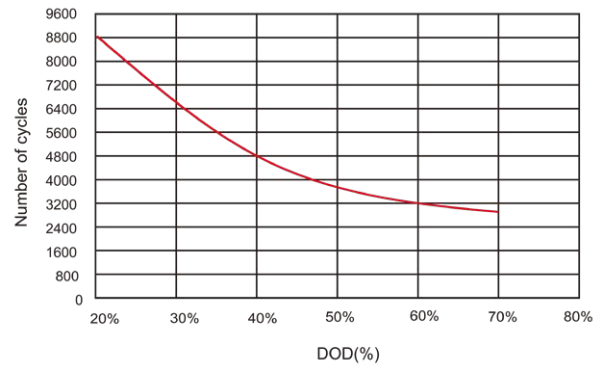
Discharge (%/Month)



Temperature effects in relation to battery capacity (%/°C)



Cycle Life in Relation to DOD (Cycles/%)



TECHNICALS

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

F.V./Time	0.5h	1h	2h	3h	4h	5h	6h	7h	8h	10h	20h
1.90 V/cell	118.2	86.0	53.6	41.6	35.2	29.7	25.9	23.0	21.3	17.6	9.40
1.85 V/cell	140.8	97.8	62.2	49.5	41.6	34.7	30.1	26.3	23.8	19.8	10.5
1.80 V/cell	157.6	107.5	66.2	50.7	42.4	35.4	30.5	26.8	24.4	20.0	10.7
1.75 V/cell	167.3	111.1	67.0	51.9	43.2	35.8	30.7	27.0	24.6	20.4	10.8

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

F.V./Time	0.5h	1h	2h	3h	4h	5h	6h	7h	8h	10h	20h
1.90 V/cell	221.2	160.5	102.4	77.4	65.4	54.8	48.1	44.2	42.5	35.3	18.8
1.85 V/cell	268.1	191.1	120.8	92.9	77.6	64.4	55.8	50.8	48.5	40.0	21.0
1.80 V/cell	294.9	200.6	126.4	94.3	78.8	65.2	56.6	51.4	48.9	40.6	21.4
1.75 V/cell	313.5	207.7	127.0	95.7	79.8	65.9	57.0	51.8	49.3	40.8	21.6