

# LCH Series

High Power Valve-Regulated Lead-Carbon Battery  
LC-12-200H



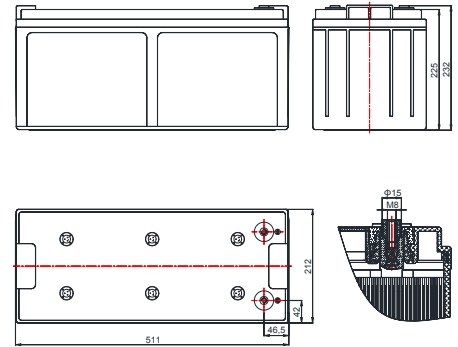
## Main Applications

- ▣ IDC and UPS
- ▣ High power & large current application scenarios
- ▣ Backup power for high precision device
- ▣ Emergency lighting, navigation lights

## Benefits

- ▣ Designed life of 12 years
- ▣ Low annual operating cost
- ▣ High security, reliability and stability
- ▣ Specifically designed for high power & large current application scenarios with superior high rate, short term power

## Dimensions :



## Technical Parameters

Nominal Voltage	12 V
Capacity	200 Ah @ 10hr to 1.80V per cell @ 25°C (77°F)
Weight	Approx. 64 kg (141.09 lbs)
Dimensions	Length: 511 mm Width: 212 mm Height: 225 mm Total Height: 232 mm
Internal Resistance (full charged)	Approx. 2.8 mΩ @ 25°C (77°F)
Maximum Discharge Current	1240 A (5sec)
Self Discharge @ 25°C (77°F)	Less than 4% after 30 days storage
Operating Temperature Range	Discharge: -40°C ~ 50°C (-40°F ~ 122°F) Charge: -20°C ~ 45°C (-4°F ~ 113°F) Storage: -20°C ~ 40°C (-4°F ~ 104°F)
Recommended Operating Temperature	15°C ~ 25°C (59°F ~ 77°F)
Maximum Charging Current Limited	40 A
Charging Voltage @ 25°C (77°F)	Float: 2.25 V/cell, Temps coefficient -3 mV/°C Equalize: 2.35 V/cell
Terminal	M8
Container Materials	ABS/ABS V0 (Optional)
Capacity Affected by Temperature	105% @ 40°C (104°F) 85% @ 0°C (32°F) 60% @ -20°C (-4°F)
Design Life @ 25°C (77°F)	12 years

## Attain Certificate :

- ISO9001
- ISO14001
- ISO18001

## Technical Features

- ▣ Adopt lead carbon technology
- ▣ Lower internal resistance and voltage drop, suited for high rate discharge applications and high efficient UPS
- ▣ Lower self-discharge rate, better charge acceptability and higher sealing reaction efficiency
- ▣ Exquisite craftsmanship and good coherence of internal resistance, capacity
- ▣ Multi-layer seal technology and special seal glue, no leakage and no acid mist escape, safe and reliable

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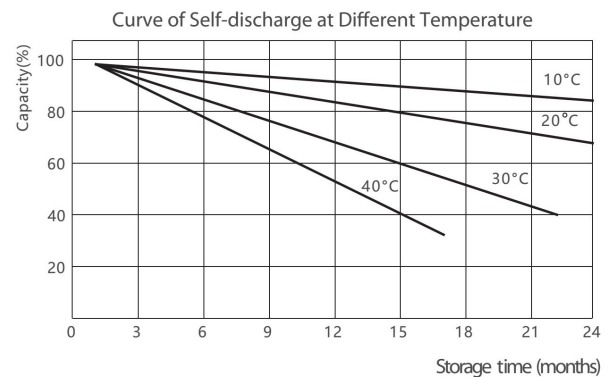
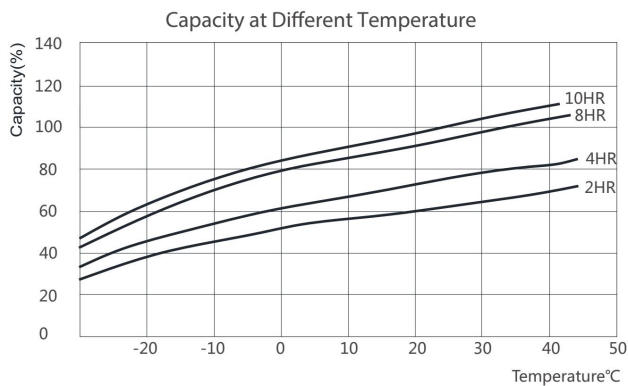
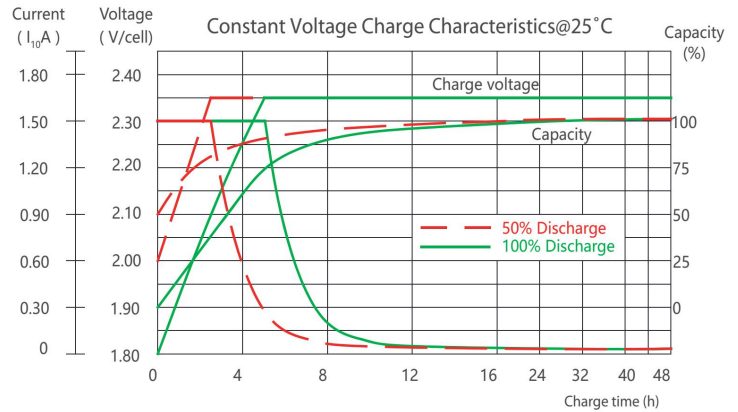
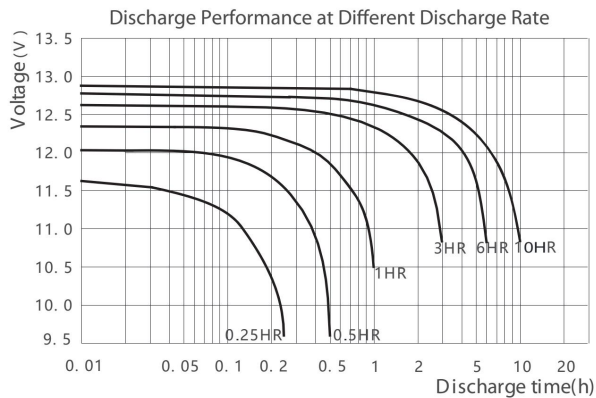
## Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	20min	30min	1hr	1.5hr	2hr	2.5hr	3hr	10hr
1.85V/cell	390	330	270	222	173	109	82.3	71.9	61.4	51.7	20.2
1.80V/cell	424	359	314	248	187	115	86.8	73.5	62.6	52.7	20.4
1.75V/cell	458	370	340	269	208	119	88.3	74.3	63.4	53.3	20.6
1.70V/cell	492	379	359	284	221	125	90.5	75.3	64.2	54.1	20.8
1.67V/cell	524	386	354	280	228	126	92.5	77.2	65.9	54.3	20.9
1.60V/cell	543	399	361	285	235	128	94.3	78.0	66.7	54.9	21.0

## Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

F.V/Time	5min	10min	15min	20min	30min	1hr	1.5hr	2hr	2.5hr	3hr	10hr
1.85V/cell	740	637	567	442	328	210	156	129	112	98.6	40.1
1.80V/cell	785	676	620	481	347	216	162	133	113	99.5	41.0
1.75V/cell	836	711	668	523	393	223	163	137	114	101	41.2
1.70V/cell	898	759	700	543	401	230	165	140	115	103	41.9
1.67V/cell	924	777	708	553	403	234	168	142	116	105	42.1
1.60V/cell	951	784	718	558	407	238	170	144	117	106	42.2

## Performance Curve



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