

LCH Series

High Power Valve-Regulated Lead-Carbon Battery
LC-12-150H



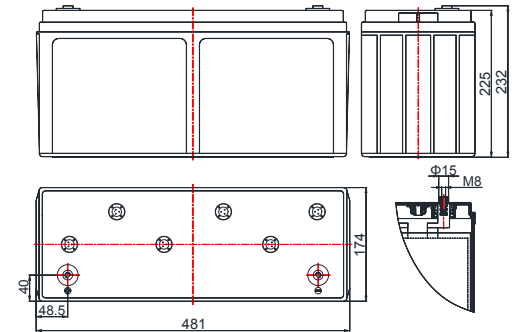
Main Applications

- ▣ 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	150 Ah @ 10hr to 1.80V per cell @ 25°C (77°F)
Weight	Approx. 46.5 kg (102.51 lbs)
Dimensions	Length: 481 mm Width: 174 mm Height: 225 mm Total Height: 232 mm
Internal Resistance (full charged)	Approx. 3.1 mΩ @ 25°C (77°F)
Maximum Discharge Current	930 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	30 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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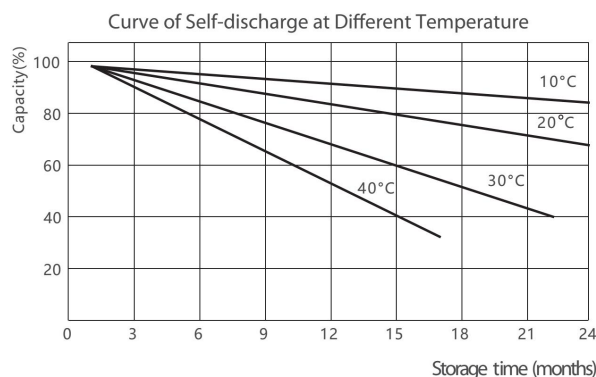
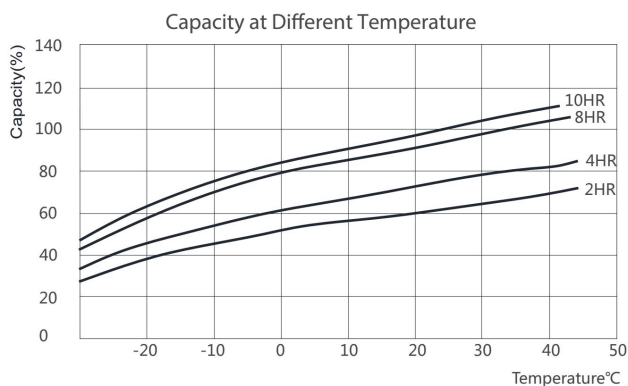
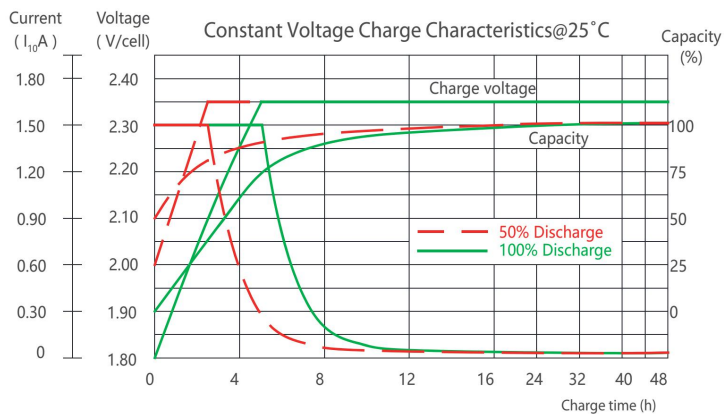
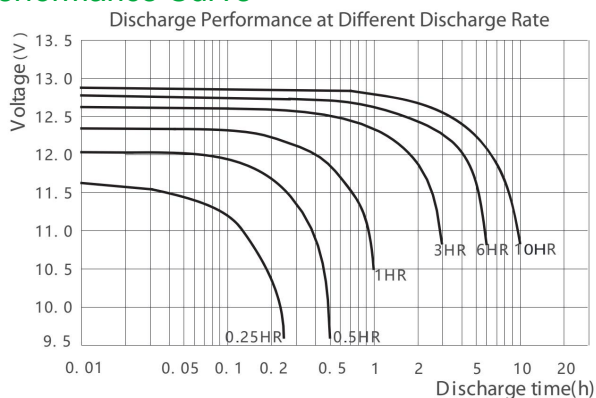
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

F.V/Time	5min	10min	15min	20min	30min	1hr	1.5hr	2hr	2.5hr	3hr	10hr
1.85V/cell	310	252	215	170	143	82.7	58.4	53.9	46.1	41.1	15.0
1.80V/cell	355	284	238	188	150	89.0	63.2	55.1	47.0	41.8	15.4
1.75V/cell	396	316	258	204	158	92.9	65.8	55.8	47.6	42.3	15.5
1.70V/cell	434	347	275	217	164	95.4	66.7	56.6	48.2	42.9	15.7
1.67V/cell	458	358	281	222	168	96.2	67.4	57.9	49.4	43.8	15.8
1.60V/cell	478	367	289	228	175	97.6	78.5	58.5	50.0	44.2	15.9

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	572	442	375	296	266	164	118	106	93.6	81.5	30.2
1.80V/cell	651	502	425	336	282	174	124	107	94.7	82.3	30.6
1.75V/cell	721	559	480	379	296	180	128	108	95.3	82.7	30.8
1.70V/cell	774	614	550	435	311	182	130	108	96.0	83.6	31.2
1.67V/cell	796	644	565	446	318	184	131	110	97.8	85.0	31.4
1.60V/cell	819	655	581	459	332	187	133	112	99.1	86.0	31.6

Performance Curve



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