



SWEeper BATTERY

LEAD CARBON BATTERY 12V/6V SERIES

HLC series lead-carbon batteries use functional activated carbon and graphene as carbon materials, which are added to the negative plate of the battery to make lead carbon batteries have the advantages of both lead-acid batteries and super capacitors. It not only improves the ability of rapid charge and discharge, but also greatly prolongs the battery life, more than 3000 cycles at 50%DOD. It is specially designed for daily heavy cyclic discharge use, so is more suitable for the application of Solar and wind power systems.



Features

- **Capacity range:**
Upto 6V400, 12V250Ah
- **Voltage:**
6V/12V
- **Low self-discharge rate:**
≤3% per month
- **Lifetime:**
15 ~ 20 years design life time in standby at 25°C
- **Wide operation temperature range:**
-30 °C ~ +60 °C
- **Good deep cycle performance:**
Upto 3000 cycles@50% DOD
- **Three times Fast charge speed**
- **Excellent deep discharge recovery capability**

SWEeper BATTERY

(Fast Charge Lead Carbon Battery)



Applications



Sweeper/ Floor machine



Electric forklifts



Golf trolleys and golf carts

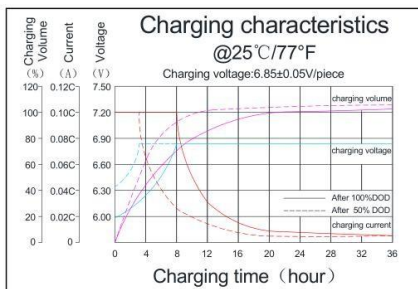


Specifications

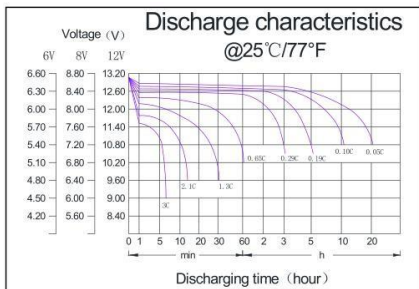
CSPOWER Model	Nominal Voltage (V)	Capacity (Ah)	Dimension (mm)				Net Weight kgs	Terminal type
			Length	Width	Height	Total Height		
HLC6-200	6	200/20HR	306	168	220	226	31.0	M8
HLC6-205	6	205/20HR	260	180	246	252	30	M8/AP
HLC6-225	6	225/20HR	243	187	275	275	32.5	M8/AP
HLC6-230	6	230/20HR	260	180	265	272	34.2	M8
HLC6-280	6	280/20HR	295	178	346	350	45.8	M8
HLC6-300	6	300/20HR	295	178	346	350	46.5	M8/DT
HLC6-340	6	340/20HR	295	178	404	408	55.0	M8/DT
HLC6-400	6	400/20HR	295	178	404	408	57.2	M8/DT
HLC12-20	12	20/20HR	166	175	126	126	8.4	M6
HLC12-24	12	24/20HR	165	126	174	174	8.6	M6
HLC12-30	12	30/20HR	196	130	155	167	10.2	M6
HLC12-35	12	35/20HR	198	166	174	174	14	M6
HLC12-50	12	50/20HR	229	138	208	212	17.7	M6
HLC12-60	12	60/20HR	350	167	178	178	23	M6
HLC12-75	12	75/20HR	260	169	211	215	26.0	M6
HLC12-90	12	90/20HR	307	169	211	215	30	M6
HLC12-100	12	100/20HR	328	172	218	222	32.0	M8
HLC12-110	12	110/20HR	407	174	208	233	38	M8
HLC12-120	12	120/20HR	341	173	283	287	40.5	M8/AP
HLC12-135	12	135/20HR	328	182	264	271	43.5	M8
HLC12-150	12	150/20HR	484	171	241	241	45.5	M8
HLC12-180	12	180/20HR	532	206	215	219	58.5	M8
HLC12-200	12	200/20HR	522	240	219	223	64.8	M8
HLC12-220	12	220/20HR	520	268	203	207	70.8	M8
HLC12-250	12	250/20HR	520	268	220	224	76.5	M8

CHARACTERISTICS

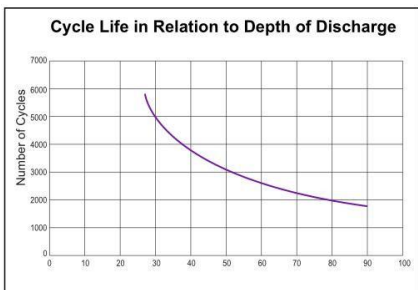
◆ Charging Characteristics



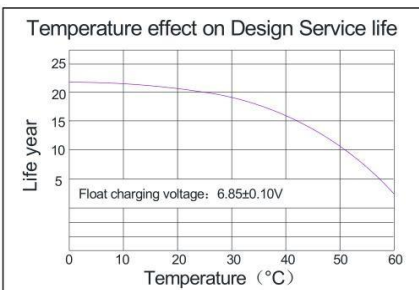
◆ Temperature Effect on designed service Life



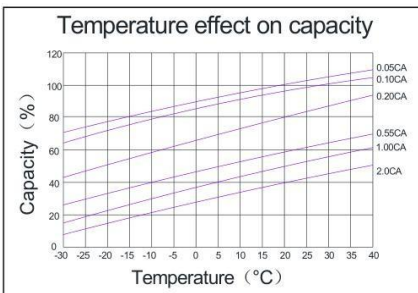
◆ Cycle Life VS. Depth of Discharge(25°C)



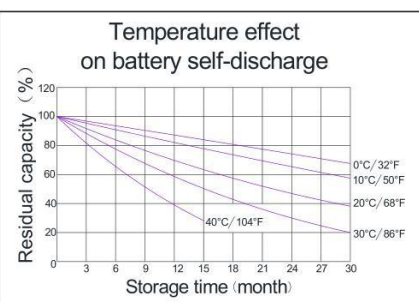
◆ Discharging Characteristics(25°C)



◆ Temperature Effect on self-discharge

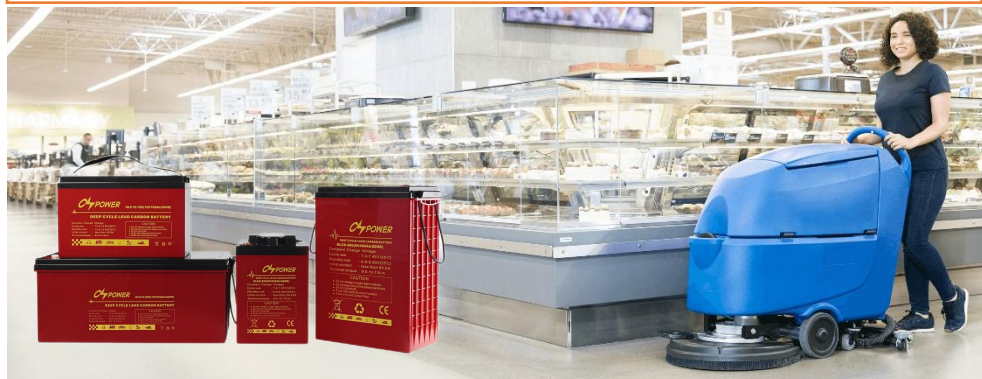


◆ Temperature Effect on Capacity



HLC Series DEEP CYCLE SWEEPER BATTERY

- ◆ specially designed for frequent high current deep discharge
- ◆ have excellent performance in high load situation
- ◆ are suitable for Sweeper, mobility scooters, golf buggies, etc.



Battery Construction

Component	Positive plate	Negative plate	Container & Cover	Safety valve	Terminal	Separator	Electrolyte	Pillar seal
Features	Rare earth alloy grid with good corrosion resistance	Unique anode formula, high purity material, low self-discharge rate	ABS (UL94-V0 optional)	Flame resistance, aging resistance	Female Copper Insert	AGM separator with organic fiber, longer service life	Gradual change gel electrolyte (with patent)	Anti-corrosion elastic O ring, two layers epoxy seal technology