

**Standard Terminal Dimensions**  
(Optional terminal please check terminal information page)

**Hind - Deep Cycle**

This range (deep cycle Lead-Carbon with poly gel) is use function activated carbon and graphene as carbon materials , with heavy strong grids that is made of a different chemical for the plates active paste material and a electrolyte stronger slightly than normal battery electrolyte. It enhances a superior performance of high power output and more than 900 cycles life at 80%DOD, it is more suitable for application of PSOC.

**Applications**

- Solar Power Generation
- Energy Storage System
- Wheel Chair
- Wind Energy Storage System

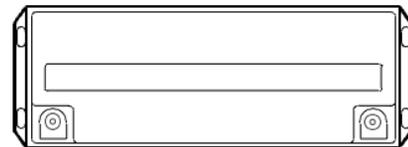
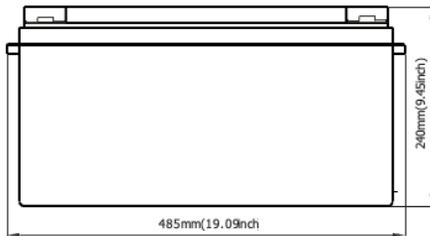
- Home Energy Storage System
- Smart power & micro-grid System
- Generation and Hybrid Energy
- Medical Equipment
- Distributed Energy Storage System

**General Features**

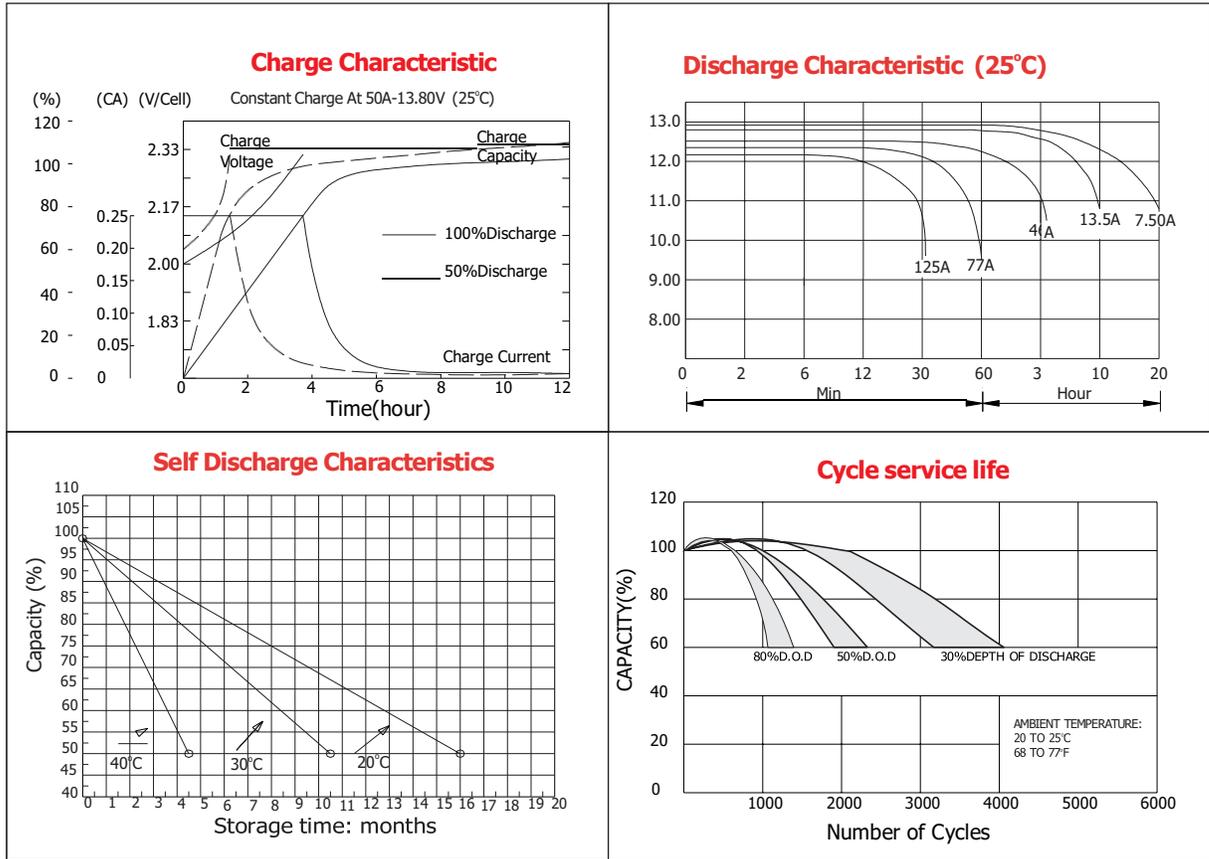
- Better discharge characteristics than normal VRLA batteries.
- Non-Spillable construction design.
- ABS containers and covers(UL94HB, UL94V-0) optional.
- Safety valve installation for explosion proof.
- Higher safety & reliable construction.
- Extra durability and deep cycle ability for heavy demand applications.
- Low self discharge characteristic.
- Flexibility design for multiple install positions.

**Construction**

- Component ..... Raw material
- Positive ..... Lead dioxide
- Negative ..... Lead
- Container ..... ABS
- Cover ..... ABS
- Sealant ..... Epoxy Resin
- Safety valve ..... EPDR
- Terminal.....Lead
- Separator..... Fiber glass
- Electrolyte..... Sulfuric acid



Battery Model	HN-150ah (With poly Gel)			
Designed Cycle Life	> 1200 cycles 80%DOD @ -0.5CA to 9.6V			
Capacity(25°C)	20HR(7.5A,1.75V)	10HR(13.5A,1.75V)	5HR(23.0A,1.75V)	1HR(77A,1.75V)
	150Ah	135Ah	115Ah	177Ah
Dimensions	Length	Width	Height	Total Height
	485mm(19.1inch)	172mm(6.77inch)	240mm(9.45inch)	240mm(9.45inch)
Approx. Weight	44kgs (96.8 lbs)			
Internal Resistance	Full charged at 25°C :0.004 Ohm			
Self Discharge	Self discharge < 3% per month at (25°C)			
Capacity Affected by Temp.(20HR)	40°C	25°C	0°C	-15°C
	102%	100%	85%	65%
Charge Voltage(25°C)	Cycle use		Float use	
	14.4-14.8V(-30mV/ °C), max. Current: 50A		13.6-13.8(-20mV/ °C)	



### Constant current discharge ratings-amperes at 25°C

F.V/Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	48HR	72HR	100HR
1.60V	83	49	36	29	24	16.5	14.5	7.9	3.4	2.3	1.69
1.67V	82	48	36	28	24	16.3	14.3	7.8	3.3	2.3	1.67
1.70V	80	47	35	28	24	16.1	14.1	7.8	3.3	2.2	1.65
1.75V	77	45	34	27	23	16.8	13.9	7.7	3.2	2.2	1.62
1.80V	73	43	33	26	22	16.3	13.5	7.5	3.1	2.1	1.57
1.85V	67	40	31	25	21	16.6	13.0	7.3	3.0	2.1	1.51

### Constant power discharge ratings-watts at 25°C

F.V/Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	48HR	72HR
1.60V	156	92	92	55	47	32	28.5	15.4	6.6	4.5
1.67V	154	91	92	55	46	32	28.3	15.3	6.5	4.5
1.70V	151	90	90	54	46	32	27.9	15.1	6.5	4.4
1.75V	146	87	88	53	45	31	27.4	14.8	6.3	4.5
1.80V	139	84	84	51	43	30	26.7	14.4	6.2	4.5
1.85V	130	78	79	48	41	29	25.6	13.9	5.9	5.4

