HP 12-200CA

Fast Charging Carbon 12V, 200 Ah

- Lead Carbon Battery
- Constant Current Discharge Characteristics - new technology
- Fully certified
- More cycles, 2000 Cycles at 80% DOD
- Longer life time
- It is more suitable for application of PSOC
- Smart power grid and micro-grid system
- Distributed energy storage system
- Solar and wind energy storage system
- Solar power generation grid or off-grid energy storage system
- Generation and battery hybrid energy storage system
- Storage system

SPECIFICATION

Cells Per Unit	6
Voltage Per Unit	12
Capacity	200Ah@10hr-rate to 1.75V per cell @25°C
Weight	Approx. 62.5 Kg (Tolerance% 1.5±)
Internal Resistance	Approx. 2.55 mΩ
Terminal	F10(M8)/F16(M8)
Max. Discharge Current	2000A (5 sec)
Design Life	15 years
Maximum Charging Current	85.0A
Cycle Use Voltage	13.8 V~14.4 V @ 25C Temperature Compensation: -4mV/Cell
Operating Temperature Range	Discharge: -20°C~60°C, Charge: 0°C~50°C, Storage: -20°C~60°C
Normal Operating Temperature Range	100% rate capacity discharge, then put 14.6 to 14.8 V/block at 25°C
Self Discharge	The batteries can be stored for up to 6 months at 25C and then recharging is recommended. Monthly Self-discharge ratio is less than 4% at 25c. Please charged batteries before using.

Constant Current Discharge Characteristics: A(25°C)

F.V/Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	48HR	72HR	100HR	120HR
1.60V	110.9	65.0	48.4	38.3	32.3	22.0	19.3	10.4	4.47	3.06	2.25	1.92
1.65V	108.8	63.9	47.6	37.8	31.9	21.8	19.1	10.3	4.42	3.03	2.23	1.90
1.70V	106.1	62.4	46.6	37.1	31.3	21.5	18.9	10.2	4.36	2.99	2.20	1.87
1.75V	102.3	60.4	45.3	36.1	30.6	21.0	18.5	10.0	4.28	2.93	2.16	1.84
1.80V	97.0	57.6	43.4	34.8	29.6	20.4	18.0	9.73	4.16	2.85	2.10	1.79
1.85V	89.6	53.6	40.7	32.8	28.1	19.4	17.3	9.33	3.99	2.74	2.01	1.71

Constant Power Discharge Characteristics : W(25°C)

F.V/Time	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR	48HR	72HR	100HR	120HR
1.60V	207.4	123.1	92.4	73.5	62.2	43.0	38.0	20.5	8.78	6.01	4.42	3.77
1.65V	205.6	121.9	91.5	72.9	61.8	42.7	37.7	20.4	8.71	5.97	4.39	3.74
1.70V	201.1	119.5	89.8	71.7	60.8	42.1	37.2	20.1	8.60	5.89	4.33	3.69
1.75V	194.9	116.2	87.6	70.1	59.6	41.3	36.5	19.7	8.45	5.78	4.26	3.62
1.80V	185.8	111.4	84.3	67.7	57.8	40.1	35.6	19.2	8.23	5.63	4.14	3.53
1.85V	172.8	104.3	79.4	64.2	55.1	38.4	34.2	18.5	7.91	5.41	3.98	3.39

All mentioned values are average values.

MH28539

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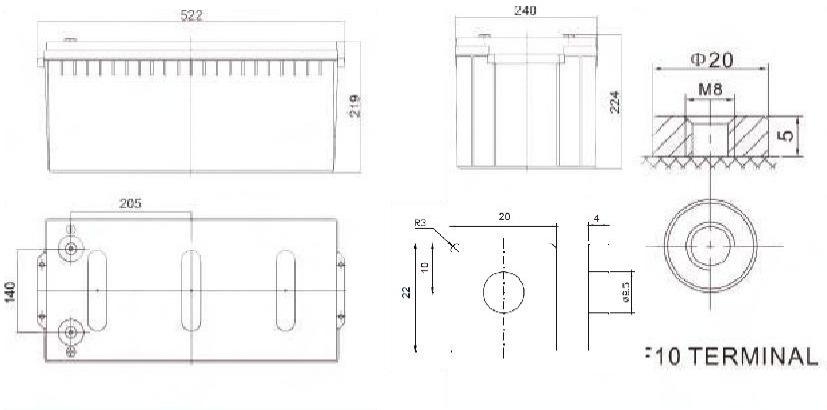
DIMENSIONS



Unit: mm

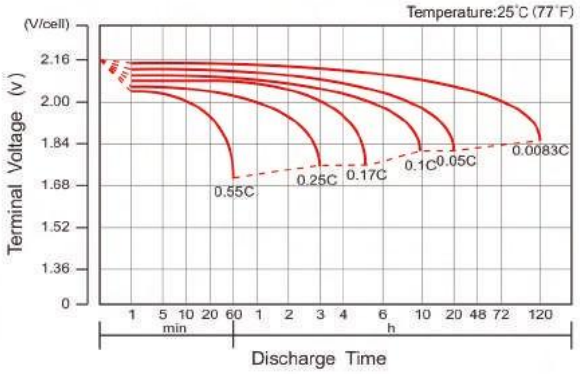
Length	522±2mm (20.6 inches)
Width	240±2mm (9.45 inches)
Height	219±2mm (8.62 inches)
Total Height	224±2mm (8.82 inches)
Terminal	Value
M5	6~7 N*m
M6	8~10 N*m
M8	10~12 N*m

REFERENCE CAPACITY

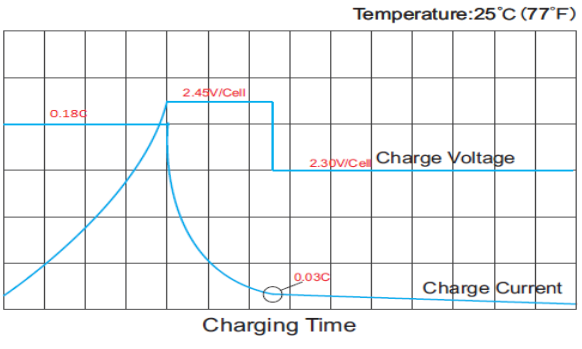
Hour Rate	C20	C10	C5	C2
F.V (V/Cell)	1.75	1.75	1.75	1.75
Capacity (Ah)	210.0	200.00	176.00	155.00

CHARACTERISTIC CURVE

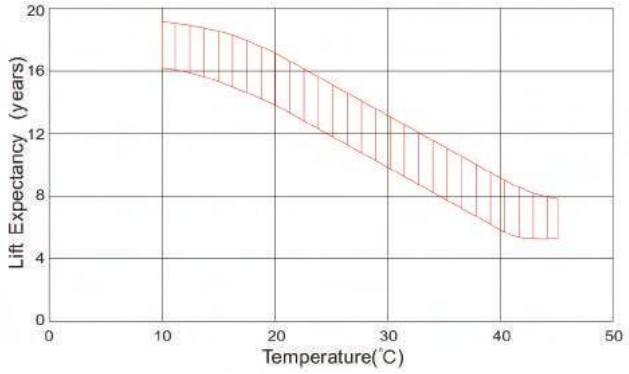
Discharge Characteristics Curve



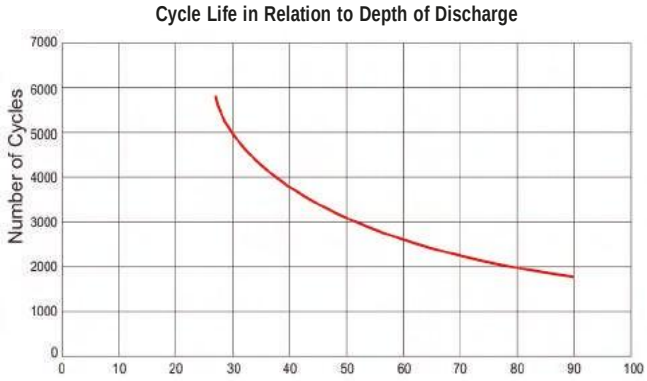
Charge Characteristic Curve for Standby Use



Effect of T emperature on Long Term Life



Cycle Life in Relation to Depth of Discharge



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Deep Cycle Carbon 12V, 200 Ah