





apex 12V 200Ah GEL BATTERY

PRODUCT FEATURES

- 
20% Cycle Life
 High Temperature Curing
- 
10% Low Temp. Capacity
 Nano Gel Electrolyte
- 
20% Charge Acceptance
 Special Negative Additive
- 
50% Grid Corrosion
 Rare-earth Patent Alloy



PRODUCT APPLICATIONS



Communication



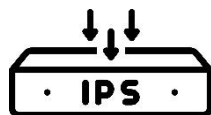
Alarm&Safety System



Wind and Solar Energy



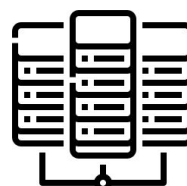
Signal



IPS



UPS



Data Center



Industrial Application

PHYSICAL SPECIFICATION

Model	Diemensions (mm/inch)				Weight	Terminal	Container
APEX12-200	Length	Width	Height	Total Height	63.2/139	I7	ABS UL94-HB (Opsiyonel: FR ABS UL94-V0)
	520/20.5	239/9.41	220/8.66	225/8.86			

PRODUCT SPECIFICATION

Nominal Voltage	Rated Capacity 25°C/77°F	Internal Resis.	Max. Discharge Current	Operating Temp. Range
12V	212Ah 20h (1.80V/Cell) 200Ah 10h (1.80V/Cell) 174Ah 5h (1.75V/Cell) 157Ah 3h (1.70V/Cell)	2.5mΩ@ 25°C/77°F	1400A (5s)	Discharge: -15~50°C (5~122°F) Charge: 0~40°C (32~1104°F) Stroge: -15~40°C (5~104°F) Optimum: 25±2°C (±4°F)

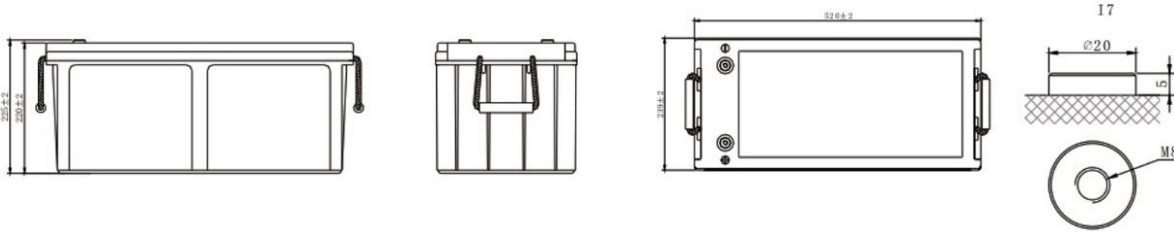
CONSTANT CURRENT DISCHARGE (A) @25°C/77°F

F.V/Time	5m	10m	15m	20m	30m	45m	1h	2h	3h	4h	6h	10h	20h
1.85V/Cell	364	287	220	184	141	109	89.6	57.7	44.3	36.4	27.9	19.5	10.4
1.80V/Cell	404	318	250	210	161	121	99.6	61.7	47.3	38.5	29.1	20.0	10.6
1.75V/Cell	435	348	274	232	176	131	107	66.7	50.5	41.0	30.3	20.4	10.8
1.70V/Cell	458	372	292	248	187	138	112	69.4	52.3	42.2	31.1	20.9	11.1
1.67V/Cell	494	392	309	262	198	143	117	72.0	53.3	43.1	31.7	21.2	11.2
1.60V/Cell	545	421	336	287	208	153	123	74.2	55.7	44.8	32.7	21.7	11.5

CONSTANT POWER DISCHARGE (W/Cell) @25°C/77°F

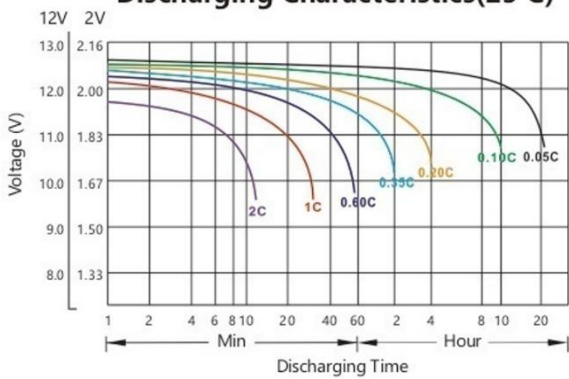
F.V/Time	5m	10m	15m	20m	30m	45m	1h	2h	3h	4h	6h	10h	20h
1.85V/Cell	678	544	423	358	277	216	178	116	89.7	74.0	56.9	40.1	21.4
1.80V/Cell	750	600	478	407	316	240	198	123	95.3	78.0	59.4	40.9	21.8
1.75V/Cell	807	655	521	447	344	258	212	133	101	82.8	61.6	41.7	22.1
1.70V/Cell	848	699	555	476	364	271	222	138	105	85.0	62.9	42.5	22.5
1.67V/Cell	913	732	586	501	385	282	230	143	106	86.5	64.1	43.0	22.9
1.60V/Cell	1002	783	633	546	404	298	242	147	111	89.6	65.8	43.9	23.2

BATTERY DIMENSIONS (mm)

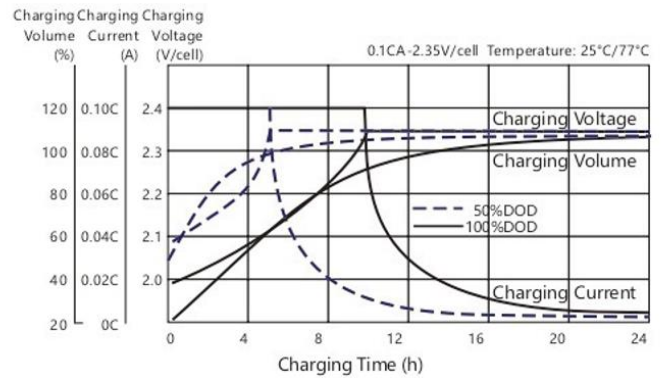


ELECTRICAL CHARACTERISTICS

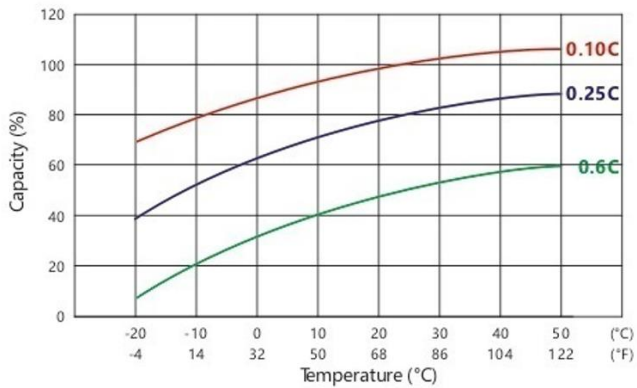
Discharging Characteristics(25°C)



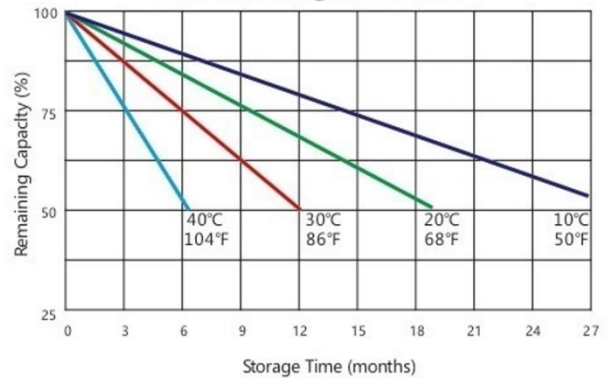
Charging Characteristics(25°C)



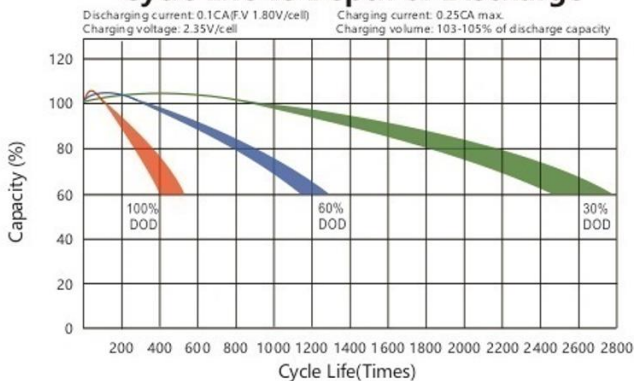
Capacity vs Temperature



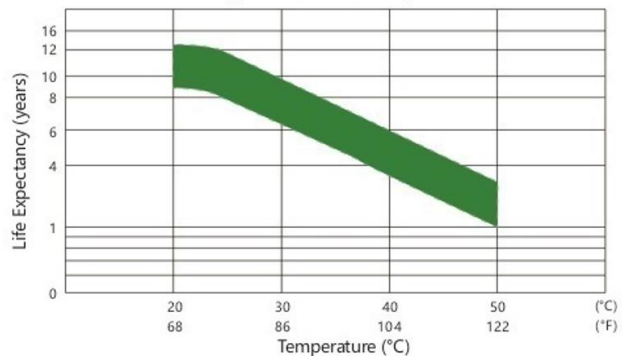
Self-discharge vs Time



Cycle Life vs Depth of Discharge



Floating Life vs Temperature



USAGE and MAINTENANCE

Charge Current	Equalization Charge	Float Charge
Limited Current: $\leq 0.25C_{10A}$	Constant Voltage: 14.1~14.4 25°C(77°F) Temp. Coefficient: -24mV/°C	Constant Voltage: 13.5~13.8V 25°C(77°F) Temp. Coefficient: -18mV°C



MERKEZ

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