





apex 12V 100Ah 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



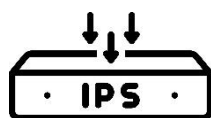
Alarm&Safety System



Wind and Solar Energy



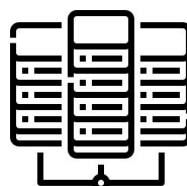
Signal



IPS



UPS



Data Center



Industrial Application

PHYSICAL SPECIFICATION

Model	Dimensions (mm/inch)				Weight	Terminal	Container
APEX12-100	Length	Width	Height	Total Height	30.6/67.5	17	ABS UL94-HB (Opsiyonel: FR ABS UL94-V0)
	330/13.0	172/6.77	214/8.43	221.5/8.72			

PRODUCT SPECIFICATIONS

Nominal Voltage	Rated Capacity 25°C/77°F	Internal Resis.	Max. Discharge Current	Operating Temp. Range
12V	106Ah 20hr (1.80V/Cell) 100Ah 10hr (1.80V/Cell) 87Ah 5hr (1.75V/Cell) 79Ah 3hr (1.70V/Cell)	4.3mΩ@ 25°C/77°F	700A (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)

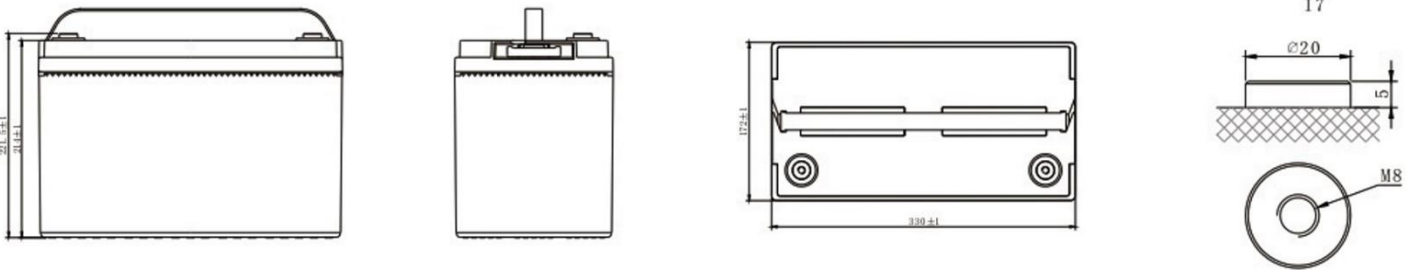
CONSTANT CURRENT DISCHARGE (A) @25°C/77°F

F.V/Time	5m.	10m.	15m.	20m.	30m.	45m.	1h	2h	3h	4h	6h	10h	20h
1.85V/Cell	182	144	110	92.2	70.5	54.4	44.8	28.9	22.2	18.2	13.9	9.76	5.21
1.80V/Cell	202	159	125	105	80.5	60.6	49.8	30.8	23.7	19.3	14.6	10.0	5.30
1.75V/Cell	218	174	137	116	87.9	65.4	53.5	33.4	25.2	20.5	15.1	10.2	5.41
1.70V/Cell	229	186	156	124	93.4	68.9	56.0	34.7	26.2	21.1	15.5	10.4	5.53
1.67V/Cell	247	196	155	131	98.9	71.4	58.3	36.0	26.7	21.6	15.9	10.6	5.62
1.60V/Cell	273	210	168	143	143	76.3	61.7	37.1	27.9	22.4	16.3	10.9	5.73

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

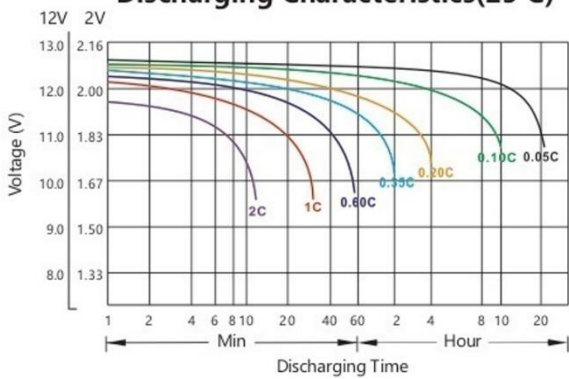
F.V/Time	5m.	10m.	15m.	20m.	30m.	45m.	1h	2h	3h	4h	6h	10h	20h
1.85V/Cell	339	272	211	179	139	108	89.2	58.0	44.9	37.0	28.5	20.0	10.7
1.80V/Cell	375	300	239	203	158	120	98.9	61.7	47.7	39.0	29.7	20.5	10.9
1.75V/Cell	404	328	261	223	172	129	106	66.6	50.7	41.4	30.8	20.9	11.1
1.70V/Cell	424	349	278	238	182	136	111	69.1	52.4	42.5	31.5	21.2	11.3
1.67V/Cell	456	366	293	251	192	141	115	71.5	53.2	43.2	32.1	21.5	11.4
1.60V/Cell	501	391	316	273	202	149	121	73.4	55.5	44.8	32.9	21.9	11.6

BATTERY DIMENSIONS (mm)

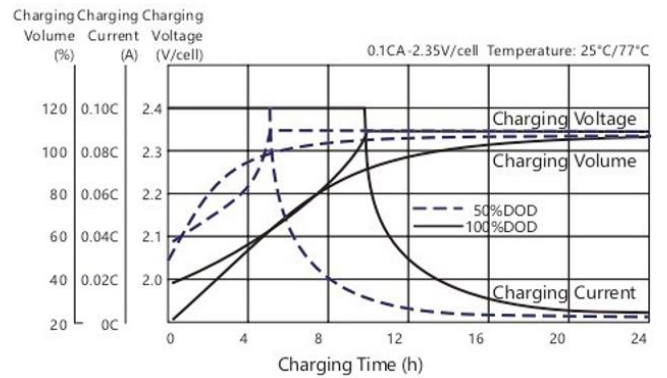


ELECTRICAL CHARACTERISTICS

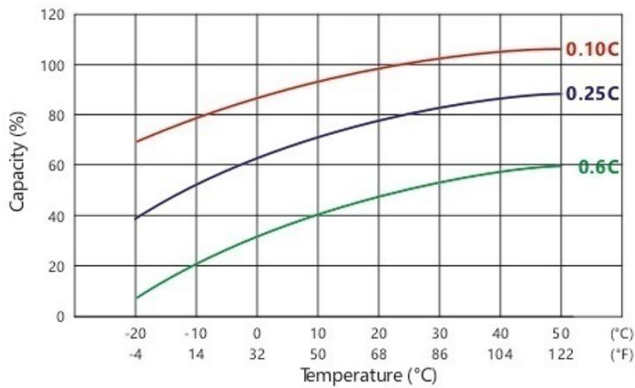
Discharging Characteristics(25°C)



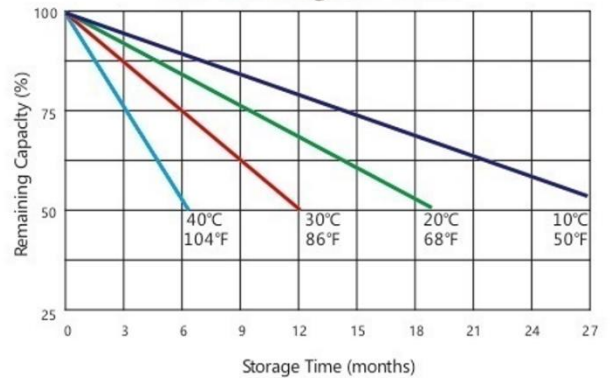
Charging Characteristics(25°C)



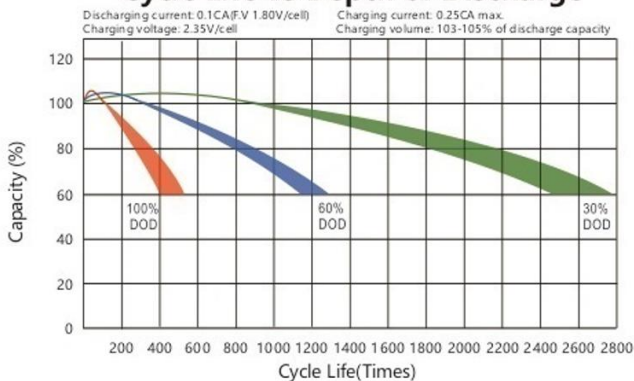
Capacity vs Temperature



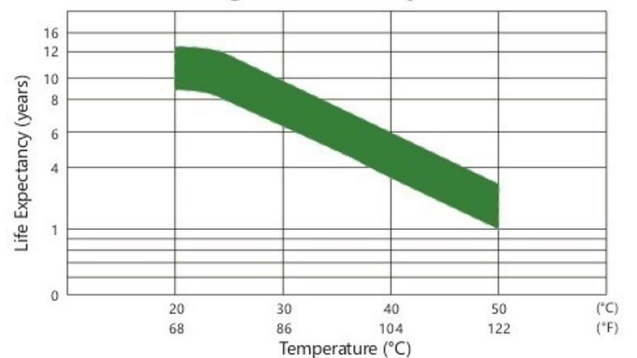
Self-discharge vs Time



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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