

PGA12-200 [12V200Ah]



Product Features

General Purpose (GEL)		260~300 Cycle Times @100%DOD	
↑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



Physical Specification

Model	Dimensions (mm/inch)				Weight (kg/lbs)	Terminal	Container
PGA12-200	Length	Width	Height	Total Height	63.2/139	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	520/20.5	239/9.41	220/8.66	225/8.86			

Product Specifications

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

Constant Current Discharge (A)@25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	364	287	220	184	141	109	89.6	57.7	44.3	36.4	31.4	27.9	22.8	19.5	10.4
1.80V/cell	404	318	250	210	161	121	99.6	61.7	47.3	38.5	33.1	29.1	23.9	20.0	10.6
1.75V/cell	435	348	274	232	176	131	107	66.7	50.5	41.0	34.8	30.3	24.6	20.4	10.8
1.70V/cell	458	372	292	248	187	138	112	69.4	52.3	42.2	35.8	31.1	25.1	20.9	11.1
1.67V/cell	494	392	309	262	198	143	117	72.0	53.3	43.1	36.6	31.7	25.5	21.2	11.2
1.60V/cell	545	421	336	287	208	153	123	74.2	55.7	44.8	37.7	32.7	26.2	21.7	11.5

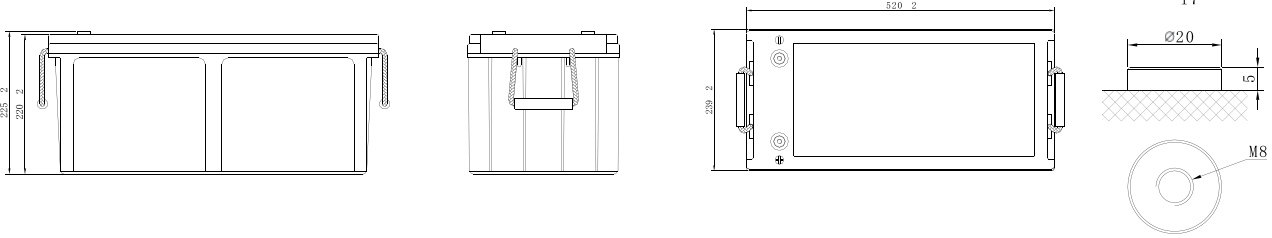
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	678	544	423	358	277	216	178	116	89.7	74.0	63.9	56.9	46.8	40.1	21.4
1.80V/cell	750	600	478	407	316	240	198	123	95.3	78.0	67.2	59.4	48.9	40.9	21.8
1.75V/cell	807	655	521	447	344	258	212	133	101	82.8	70.6	61.6	50.2	41.7	22.1
1.70V/cell	848	699	555	476	364	271	222	138	105	85.0	72.4	62.9	51.0	42.5	22.5
1.67V/cell	913	732	586	501	385	282	230	143	106	86.5	73.7	64.1	51.7	43.0	22.9
1.60V/cell	1002	783	633	546	404	298	242	147	111	89.6	75.7	65.8	52.9	43.9	23.2

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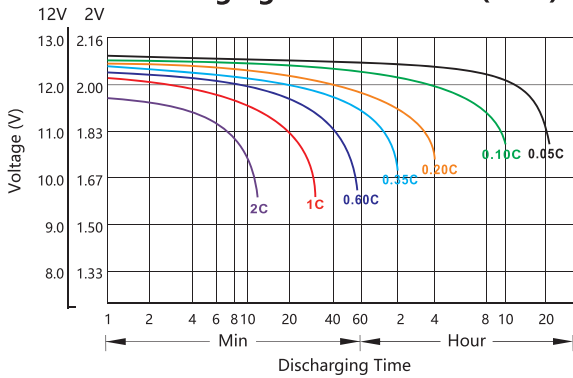


Battery Dimensions(mm)

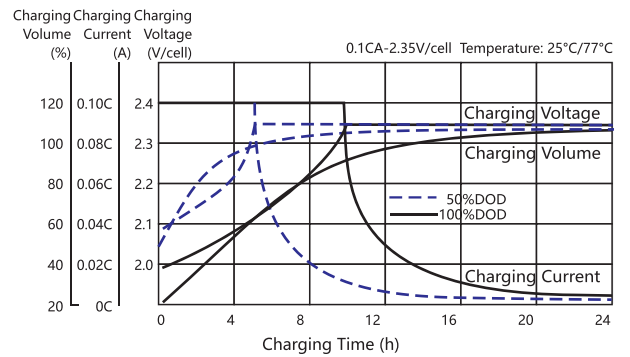


Electrical Characteristics

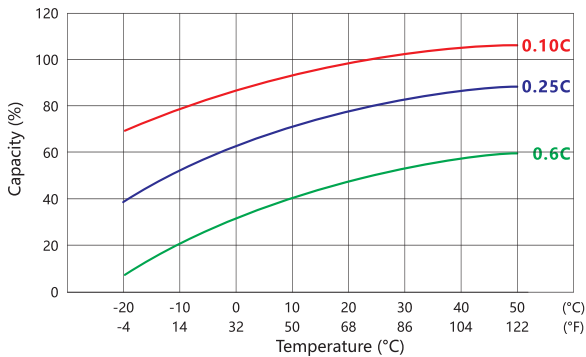
Discharging Characteristics(25°C)



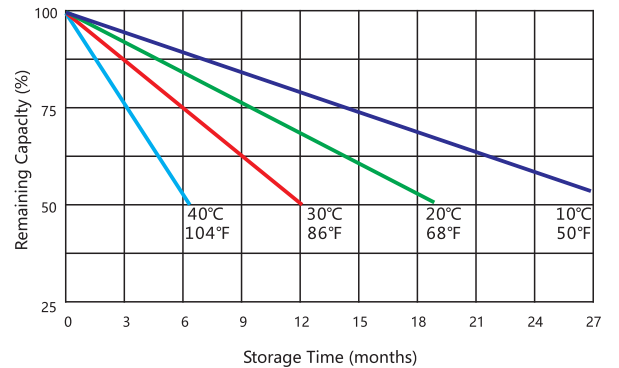
Charging Characteristics(25°C)



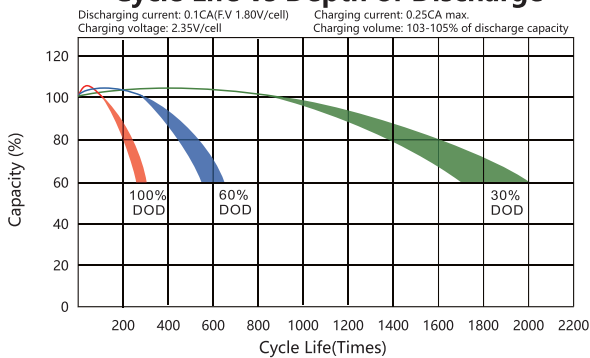
Capacity vs Temperature



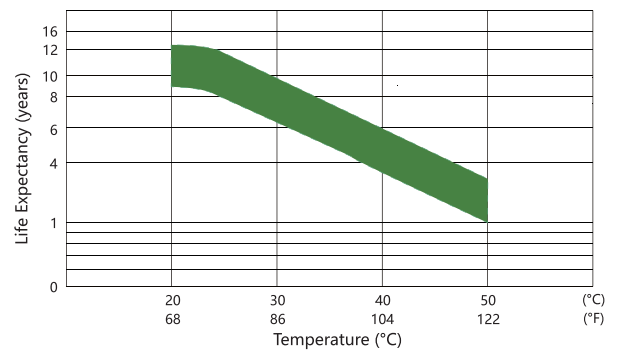
Self-discharge vs Time



Cycle Life vs Depth of Discharge



Floating Life vs Temperature



Usage and Maintenance

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