

PGA12-150 [12V150Ah]



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
PGA12-150	Length	Width	Height	Total Height	45.0/99.2	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	480/18.9	170/6.69	240/9.45	240/9.45			

Product Specifications

Nominal Voltage	Rated Capacity25°C/77°F	Internal Resistance	Max. Discharge Current	Operating Temp. Range
12V	159Ah 20hr Rate (1.80V/cell) 150Ah 10hr Rate (1.80V/cell) 131Ah 5hr Rate (1.75V/cell) 118Ah 3hr Rate (1.70V/cell)	3.5mΩ@25°C/77°F	1050A (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	273	215	165	138	106	81.6	67.2	43.3	33.3	27.3	23.5	20.9	17.1	14.6	7.82
1.80V/cell	303	238	187	158	121	90.9	74.7	46.2	35.5	28.9	24.8	21.8	17.9	15.0	7.95
1.75V/cell	326	261	205	174	132	98.1	80.2	50.1	37.9	30.7	26.1	22.7	18.5	15.3	8.12
1.70V/cell	343	279	219	186	140	103	84.1	52.0	39.2	31.7	26.9	23.3	18.8	15.7	8.29
1.67V/cell	371	294	232	196	148	108	87.4	54.0	40.0	32.3	27.5	23.8	19.1	15.9	8.43
1.60V/cell	409	316	252	215	156	114	92.5	55.6	41.8	33.6	28.3	24.5	19.6	16.3	8.59

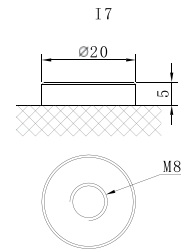
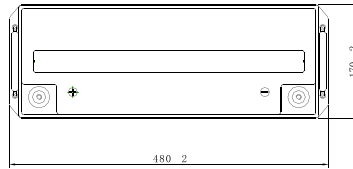
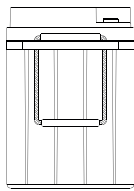
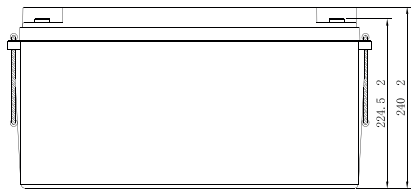
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	508	408	317	268	208	162	134	87.0	67.3	55.5	48.0	42.7	35.1	30.1	16.1
1.80V/cell	563	450	358	305	237	180	148	92.6	71.5	58.5	50.4	44.5	36.7	30.7	16.3
1.75V/cell	606	492	391	335	258	194	159	100	76.0	62.1	52.9	46.2	37.7	31.3	16.6
1.70V/cell	636	524	416	357	273	204	166	104	78.6	63.7	54.3	47.2	38.2	31.9	16.9
1.67V/cell	684	549	439	376	289	211	172	107	79.9	64.9	55.3	48.1	38.7	32.3	17.1
1.60V/cell	752	587	474	410	303	224	182	110	83.2	67.2	56.8	49.4	39.7	32.9	17.4

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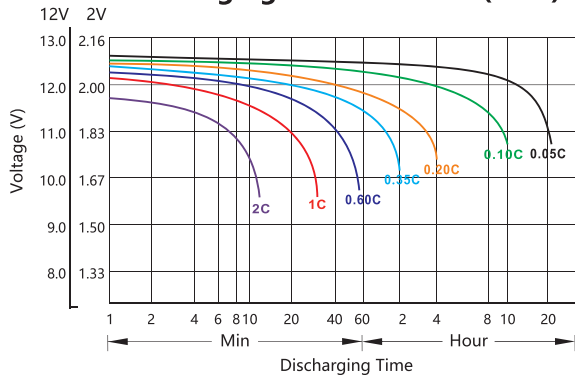


Battery Dimensions(mm)

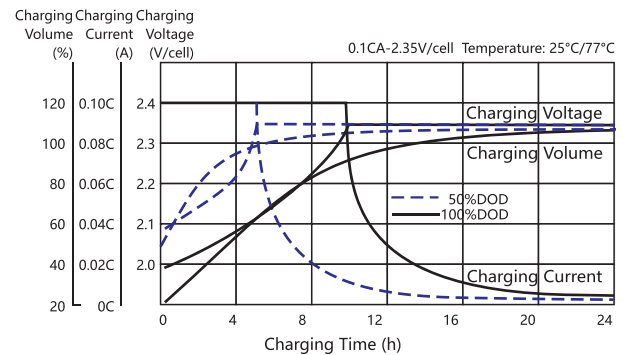


Electrical Characteristics

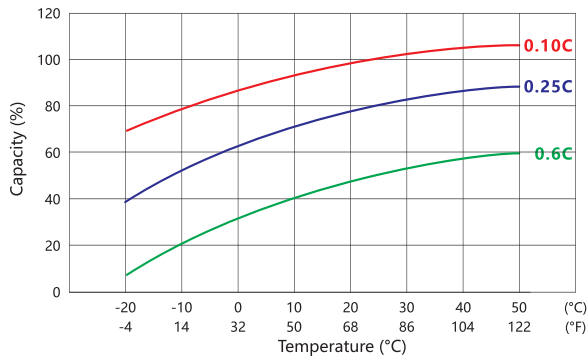
Discharging Characteristics(25°C)



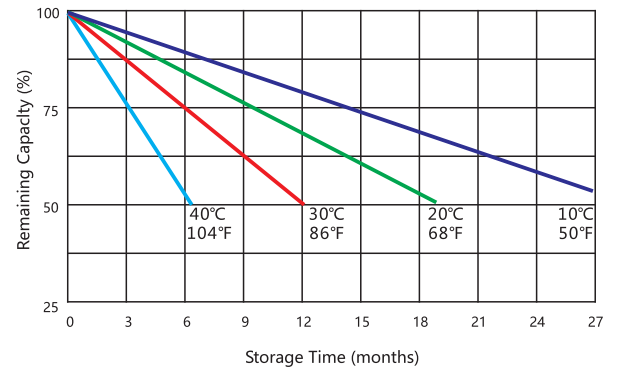
Charging Characteristics(25°C)



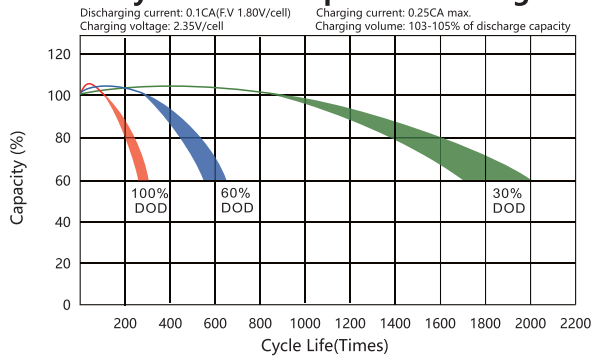
Capacity vs Temperature



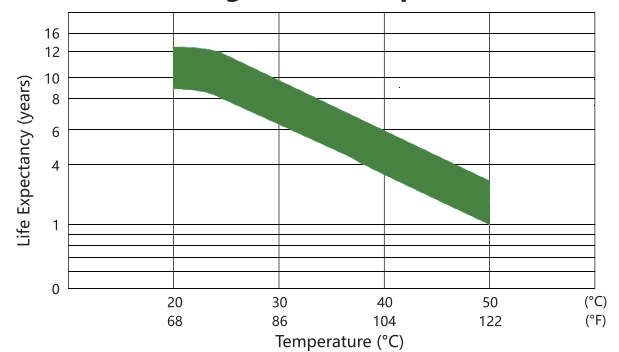
Self-discharge vs Time



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