

PGA12-25 [12V25Ah]



Product Features

Deep Cycle High Power Series 400~600 Cycle Times @100%DOD

↑10%W/2hr
Discharging Power
High Rate Formula

>40Wh/kg
Energy Density
Special Paste Formula

↑40%
Power Output Area
High Density Grouping

↓50%
Grid Corrosion
Rare-earth patent alloy

Product Applications



Moped



Electric Two-wheeler



Electric Motorcycle



E-scooter



Kid's Electric Bike

Physical Specifications

Model	Dimensions (mm/inch)				Weight (kg/lbs)	Terminal	Container
	Length	Width	Height	Total Height			
PGA12-25	181/7.13	77/3.03	171/6.73	171/6.73	6.50/14.3	17 110	ABS UL94-HB (Optional: FR ABS UL94-V0)

Product Specifications

Nominal Voltage	Rated Capacity 25°C/77°C	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time
12V	25.0Ah 20hr Rate (1.80V/cell) 23.8Ah 10hr Rate (1.80V/cell) 23.2Ah 5hr Rate (1.75V/cell) 21.6Ah 2hr Rate (1.75V/cell)	Discharge:-15°C~50°C (5°F~122°F) Charge:0°C~40°C (32°F~104°F) Storage:-15°C~40°C (5°F~104°F) Optimum:25°C±2°C (77°F±5°F)	40°C (104°F):106% 25°C (77°F):100% 0°C (32°F):85% -15°C (5°F):72%	Three months : 90% Six months : 80% Nine months : 60%

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

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	29.6	24.2	17.7	10.5	7.32	5.66	4.58	3.84	2.91	2.35	1.23
1.80V/cell	30.3	24.7	18.0	10.7	7.42	5.72	4.62	3.88	2.94	2.38	1.26
1.75V/cell	31.0	25.2	18.3	10.8	7.50	5.76	4.65	3.90	2.96	2.40	1.26
1.70V/cell	31.5	25.5	18.5	10.9	7.56	5.79	4.68	3.92	2.97	2.41	1.27
1.67V/cell	32.1	25.9	18.7	11.1	7.60	5.81	4.69	3.93	2.98	2.41	1.27
1.60V/cell	32.9	26.3	18.9	11.2	7.64	5.84	4.70	3.94	2.99	2.41	1.27

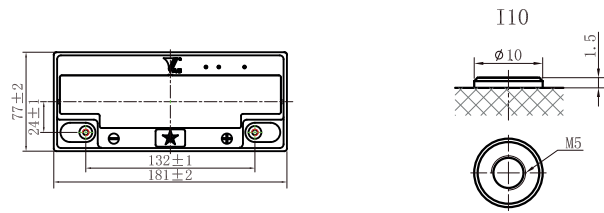
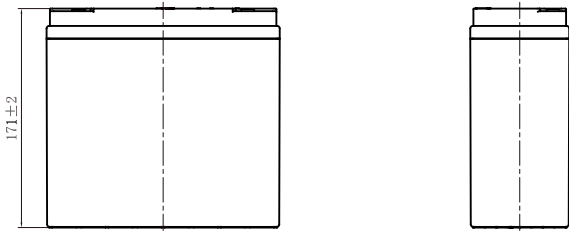
Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	58.3	48.0	35.2	21.0	14.7	11.3	9.17	7.69	5.82	4.70	2.46
1.80V/cell	59.7	48.9	35.8	21.3	14.8	11.4	9.25	7.76	5.89	4.77	2.51
1.75V/cell	60.9	49.8	36.3	21.6	15.0	11.5	9.30	7.81	5.91	4.79	2.52
1.70V/cell	61.9	50.5	36.8	21.9	15.1	11.6	9.34	7.83	5.94	4.80	2.53
1.67V/cell	63.0	51.2	37.2	22.1	15.1	11.6	9.35	7.85	5.95	4.81	2.53
1.60V/cell	64.5	51.9	37.5	22.3	15.2	11.6	9.37	7.86	5.96	4.81	2.53

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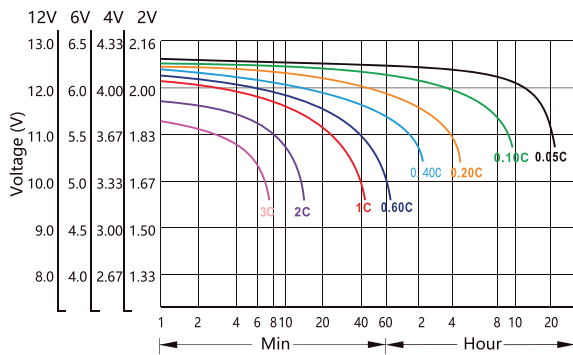


Battery Dimensions(mm)

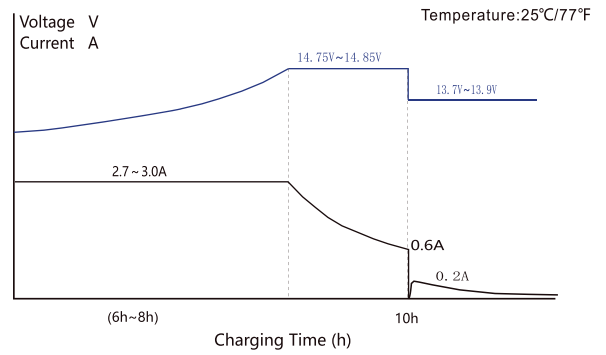


Electrical Characteristics

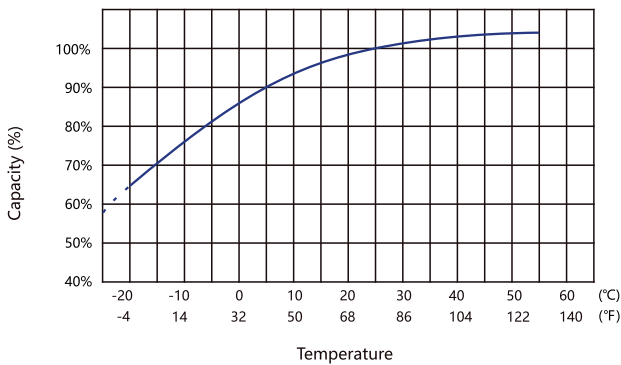
Discharging Characteristics@25°C(77°F)



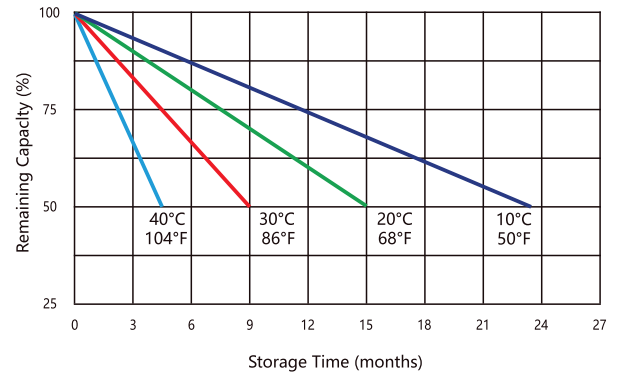
Charging Characteristics@25°C(77°F)



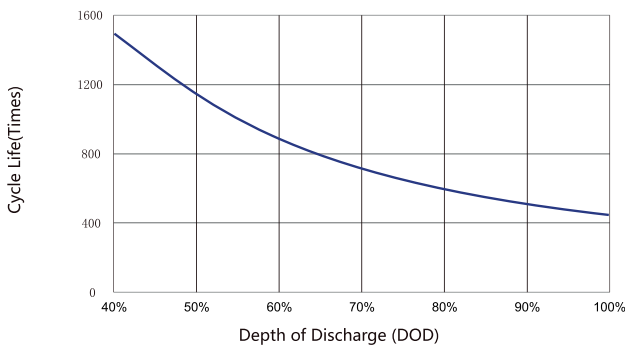
Capacity vs Temperature



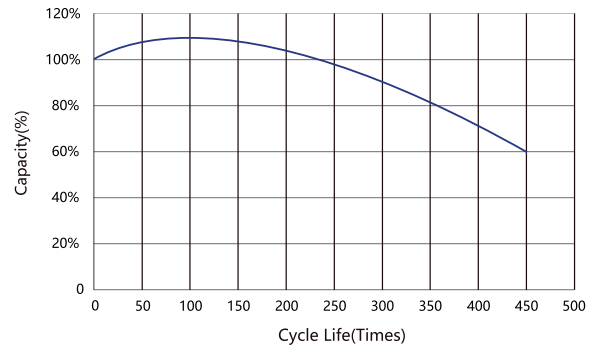
Self-discharge vs Time



Cycle Life vs Depth of Discharge@25°C(77°F)



Cycle Life vs Remaining Capacity@25°C(77°F)



Usage and Maintenance

Limited Current	Limited Voltage	Floating Voltage
Limited current: $\leq 0.15C \cdot A$	14.6V~ 14.8V @25°C(77°F) Temp.Coefficient:-24mV/°C	13.6V~13.8V@25°C(77°F) Temp.Coefficient:-18mV/°C