

## Product Features

Deep Cycle High Power Series 600 Cycles @ 80%DOD / 400 @ 100%

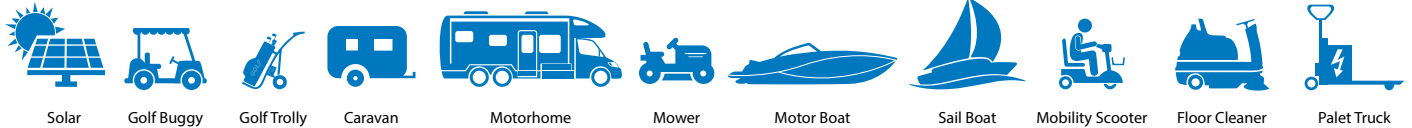
**↑10%**  
Energy Density  
Patent negative pasting formula

**↓50%**  
Grid Corrosion  
Rare-earth patent alloy

**0%**  
Acid Stratification  
Nano silica gel technology



## Product Applications



## Physical Specifications

Model	Dimensions (±2mm/inch)				Weight (±2%kg/lbs)	Terminal	Container
ADC12-125EV	Length	Width	Height	Total Height	32.5/71.7	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	330/13.0	171/6.73	214/8.43	214/8.43			

## Product Specifications

Nominal Voltage	Rated Capacity 25 °C/77 °C	Operating Temp.Range	Capacity Effected Temp	Capacity vs Storage Time
12V	125Ah 20hr Rate (1.80V/cell)	Discharge: -15 °C~50 °C (5 °F~122 °F)	40 °C (104 °F):106%	Three months : 90% Six months : 80% Nine months : 60%
	113Ah 10hr Rate (1.75V/cell)	Charge: 0 °C~40 °C (32 °F~104 °F)	25 °C (77 °F):100%	
	106Ah 5hr Rate (1.75V/cell)	Storage: -15 °C~40 °C (5 °F~104 °F)	0 °C (32 °F):85%	
	100Ah 3hr Rate (1.75V/cell)	Optimum: 25 °C ± 2 °C (77 °F±5 °F)	-15 °C (5 °F):72%	

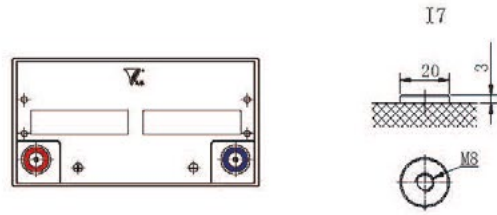
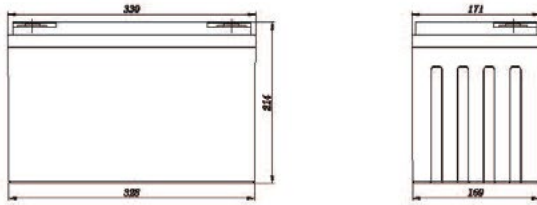
## Constant Current Discharge (A) @ 25 °C (77 °F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	134.0	95.5	76.5	43.8	31.0	24.47	20.00	17.02	13.12	10.75	6.04
1.80V/cell	138.8	98.3	78.9	45.3	32.1	25.19	20.78	17.65	13.50	11.02	6.25
1.75V/cell	142.5	102.0	81.8	48.1	33.3	26.09	21.25	18.02	13.89	11.25	6.37
1.70V/cell	146.0	104.7	84.6	48.9	34.1	27.00	22.13	18.90	14.22	11.54	6.51
1.67V/cell	149.0	108.0	87.6	49.4	34.5	27.25	22.63	19.00	14.53	11.74	6.57
1.60V/cell	153.0	111.2	89.4	51.1	35.7	28.06	23.12	19.56	14.89	12.13	6.62

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

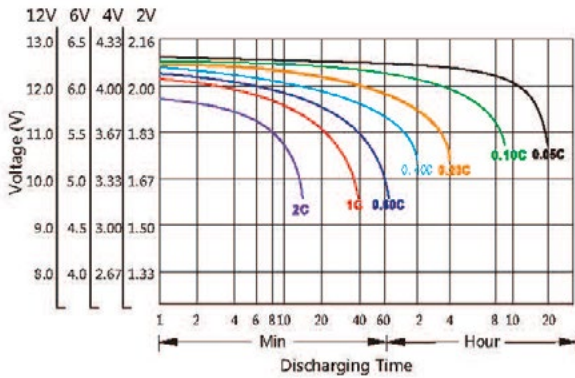
F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	261.7	187.8	151.3	87.2	62.1	49.3	40.3	34.4	26.59	21.8	12.31
1.80V/cell	269.9	192.7	155.4	89.9	64.2	50.5	41.7	35.5	27.24	22.29	12.67
1.75V/cell	276.2	199.4	160.7	95.3	66.3	52.1	42.5	36.1	27.92	22.66	12.87
1.70V/cell	281.5	203.1	165.3	96.2	67.4	53.6	44.0	37.7	28.44	23.11	13.10
1.67V/cell	285.0	208.1	170.1	96.7	67.8	53.8	44.7	37.6	28.82	23.35	13.13
1.60V/cell	290.2	212.7	171.8	99.1	69.6	54.9	45.3	38.4	29.33	23.93	13.20

## Battery Dimensions (mm)

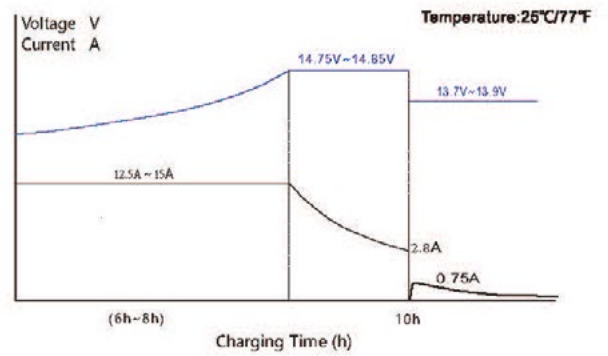


## Electrical Characteristics

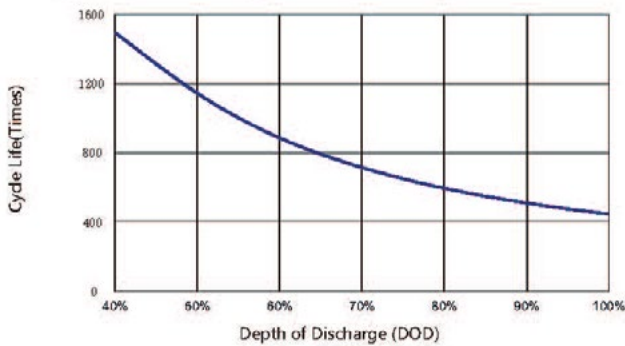
### Discharge Characteristics @ 25 °C (77 °F)



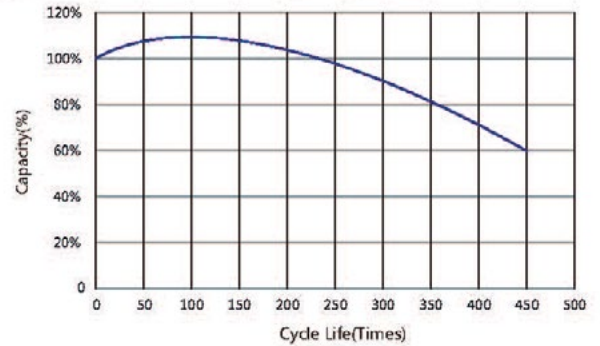
### Charge Characteristics @ 25 °C (77 °F)



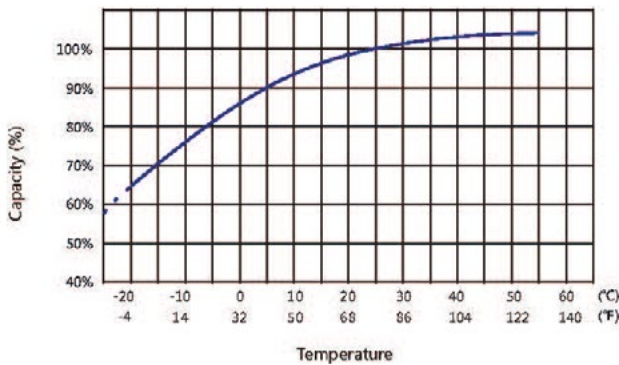
### Cycle Life vs Depth of Discharge @ 25 °C (77 °F)



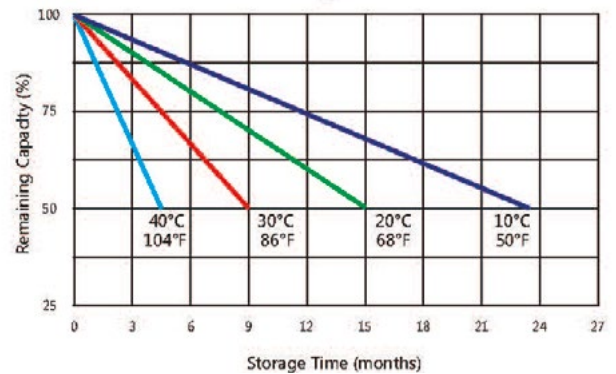
### Cycle Life vs Remaining Capacity @ 25 °C (77 °F)



### Capacity vs Temperature



### Self-discharge vs Time



## Usage and Maintenance

Limited Current	Limited Voltage	Floating Voltage
Limited current: $\leq 0.12CA$	14.75V~14.85V @ 25 °C (77 °F) Temp.Coefficient: -24mV/°C	13.7V~13.9V @ 25 °C (77 °F) Temp.Coefficient: -18mV/°C