

# EV6-400 (6V-400AH)

## Product Features

Deep Cycle Long Life Series 400~600 Cycle Times @100%DOD		
<b>↑10% Capacity</b> Improve the content and utilization of active substances, Direct Bar-welding	Carbon Fiber	Rare-earth alloy
	<b>↑15%</b> Discharge Power Positive Carbon Fiber	<b>↓50%</b> Grid Corrosion Rare-earth patent alloy

## Product Applications



## Physical Specification

Model	Dimensions (±2mm/inch)				Weight (±5%kg/lbs)	Terminal	Container
TNEP6-400	Length	Width	Height	Total Height	51.0/112.4	I7	ABS UL94-HB (Optional: FR ABS UL94-V0)
	295/11.6	178/7.01	345/13.6	350/13.8			

## Product Specifications

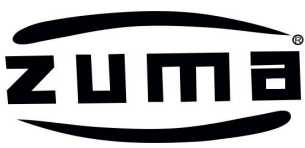
Nominal Voltage	Rated Capacity 25°C/77°C	Operating Temp. Range	Capacity Effected Temp	Capacity vs Storage Time
6V	400Ah 20hr Rate (1.80V/cell) 360Ah 10hr Rate (1.75V/cell) 320Ah 5hr Rate (1.75V/cell) 285Ah 3hr Rate (1.75V/cell)	Discharge: -15~50°C (5~122°F) Charge: 0~40°C (32~104°F) Storage: -15~40°C (5~104°F) Optimum: 25±3°C (77±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	429	306	245	130	88.3	71.6	59.1	50.9	39.7	34.9	19.3
1.80V/cell	444	315	252	137	91.6	73.5	61.5	52.7	42.0	35.2	20.0
1.75V/cell	456	326	262	139	95.1	76.1	64.0	54.2	41.9	36.0	20.4
1.70V/cell	467	335	268	144	97.2	79.3	65.8	56.9	42.9	36.8	20.8
1.68V/cell	477	346	272	145	98.3	79.9	67.7	57.1	44.1	36.9	21.0
1.60V/cell	490	356	274	146	102	82.3	69.0	58.9	45.2	37.2	21.2

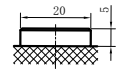
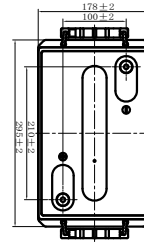
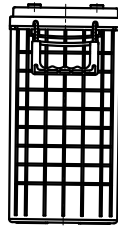
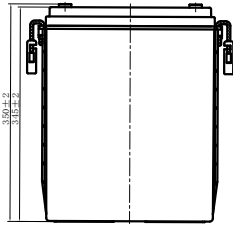
## Constant Power Discharge (W/cell)@25°C (77°F)

F.V/Time	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	838	601	484	259	177	144	119	103	80.4	70.9	39.4
1.80V/cell	864	617	497	271	183	147	124	106	84.8	71.2	40.5
1.75V/cell	884	638	514	276	189	152	128	109	84.1	72.5	41.2
1.70V/cell	901	650	523	283	192	157	131	113	85.7	73.8	41.9
1.68V/cell	912	666	528	284	193	158	134	113	87.4	73.5	42.0
1.60V/cell	929	680	526	284	198	161	135	116	89.0	73.4	42.3



# EV6-400 (6V-400AH)

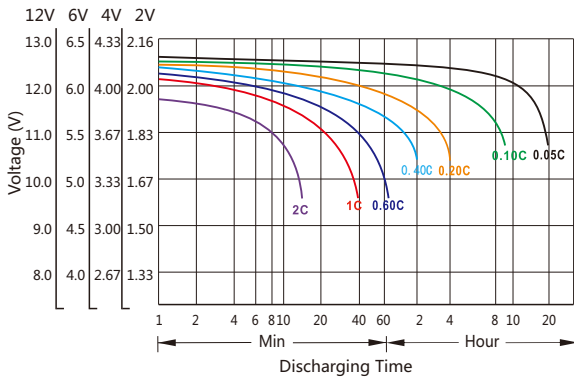
## Battery Dimensions(mm)



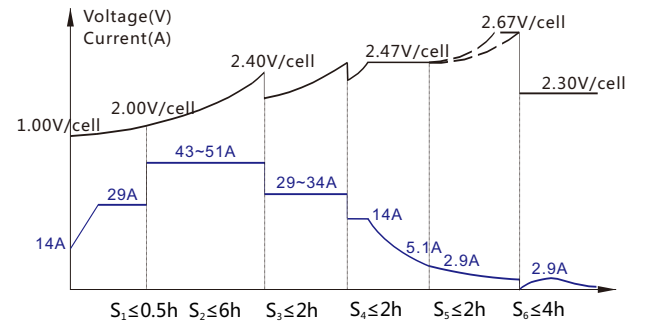
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## Electrical Characteristics

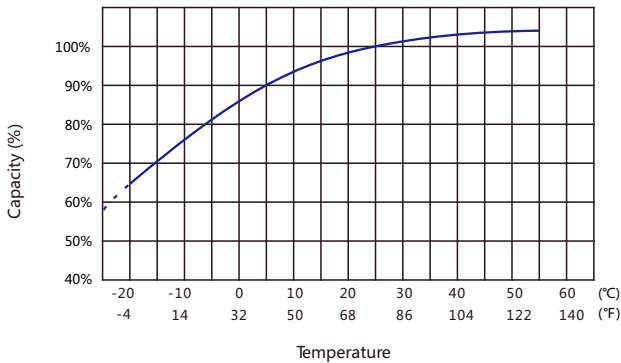
### Discharging Characteristics@25°C(77°F)



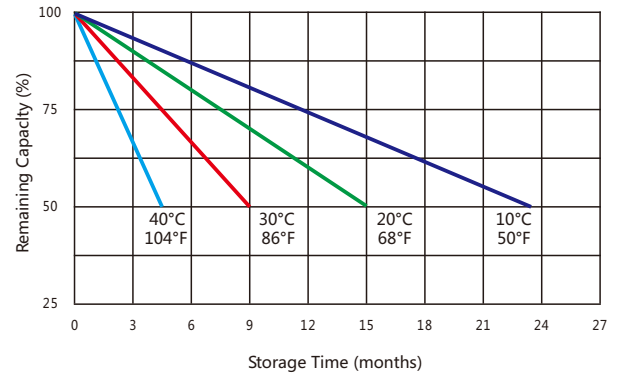
### Charging Characteristics@25°C(77°F)



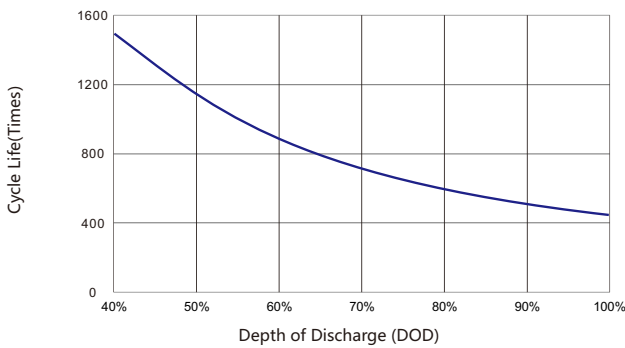
### Capacity vs Temperature



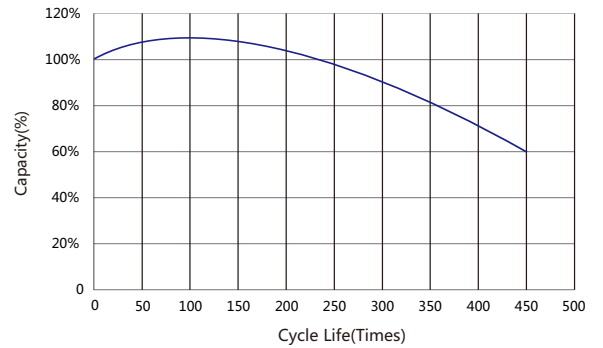
### Self-discharge vs Time



### 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 : $\leq 0.2C_5A$	7.2V~7.4V@25°C(77°F) Temp.Coefficient:-12mV/°C	6.75V~6.90V@25°C(77°F) Temp.Coefficient:-9mV/°C