

OPzV Tubular-Gel Battery

6 OPzV 420

2V420AH



FEATURES

- Non-Spillable construction design
- Safety valve installation for explosion proof
- Low self discharge characteristic
- Exceptional deep discharge recovery performance
- ABS containers and covers(UL94HB, UL94V-0) optional
- Higher safety & reliability

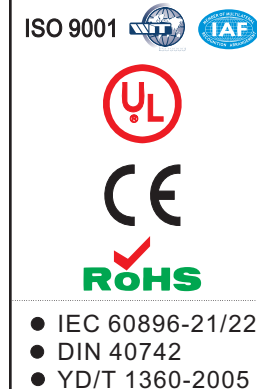
APPLICATION

- Solar Energy System
- Telecommunications
- Emergency Power System
- Control Equipment
- Power Plant and Power Transformer System



SPECIFICATIONS

Nominal Voltage	2V
Nominal Capacity	420Ah@10 hour rate F.V.(1.80V/cell)
Approx. Weight	35.0Kg (77.16lbs.)
Terminals	M8 Female Large Size Copper Post
Internal Resistance	≤0.52mΩ (Fully Charged)
Max. Discharge Current	4000A (3 sec)
Max. Charge Current	100A
Operating Temperature Range	Charge: -20°C~50°C (-4°F~122°F) Discharge: -40°C~55°C (-40°F~131°F) Storage: -20°C~40°C (-4°F~104°F)
Self Discharge	About 2.0% of capacity declined per month at (25°C)



DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

207±2.0mm (8.15±0.08inch)

Width

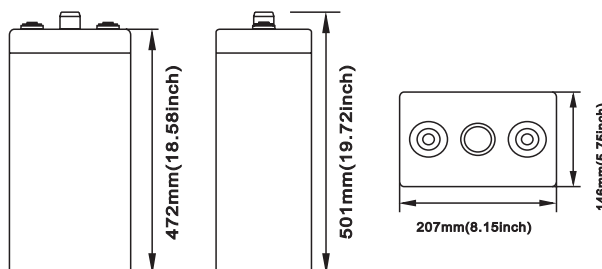
146±2.0mm (5.75±0.08inch)

Container Height

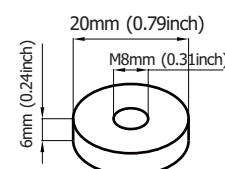
472±2.0mm (18.58±0.08inch)

Total Height

501±2.0mm (19.72±0.08inch)



Terminal



[M8 BOLT]

Terminal Hardware Initial Torque:13(5.5Nm±5%)

Constant power discharge characteristics at 25°C/77°F Unit:W

F. V/Time	15MIN	30MIN	1HR	2HR	3HR	5HR	10HR	20HR	Charge Voltage	
1.70V	803	653	406	294	199	134	82.8	48.3	Cycle use	2.35-2.40V (±4mV)
1.75V	707	610	408	284	200	133	82.7	48.7		
1.80V	588	545	400	258	192	130	79.7	47.9	Max Current	100A
1.90V	445	429	334	211	154	109	73.0	43.2		

Constant current discharge characteristics at 25°C/77°F Unit:A

F. V/Time	15MIN	30MIN	1HR	2HR	3HR	5HR	10HR	20HR	Float Use	
1.70V	490	375	225	150	111	76.5	45.0	26.3	2.25-2.30V (±3mV)	
1.75V	442	348	235	146	109	75.6	44.5	26.2		
1.80V	384	318	222	141	105	73.8	42.5	25.6		
1.90V	250	234	174	117	91	64.0	39.0	23.1		

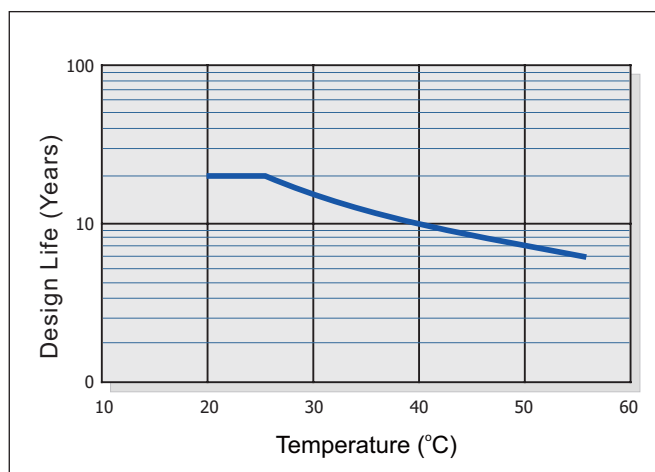
OPzV Tubular-Gel Battery

6 OPzV 400

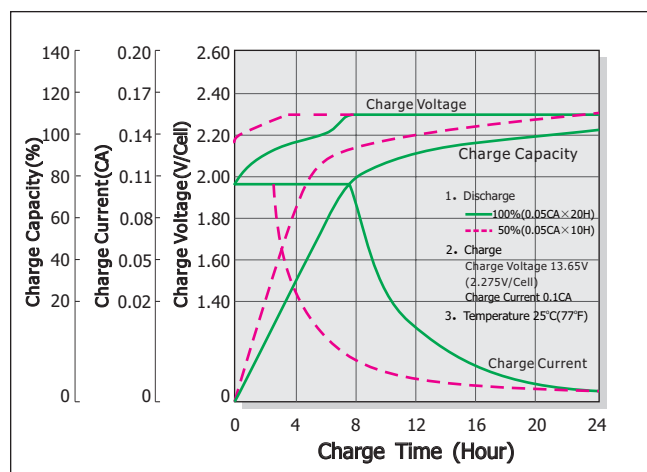
2V400AH



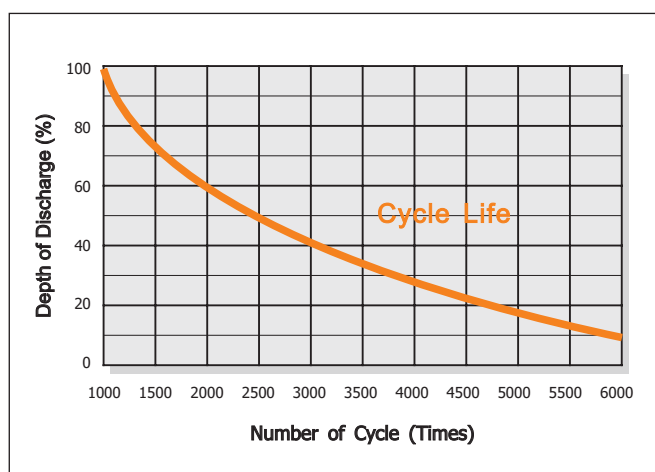
Trickle(or Float) Service Life



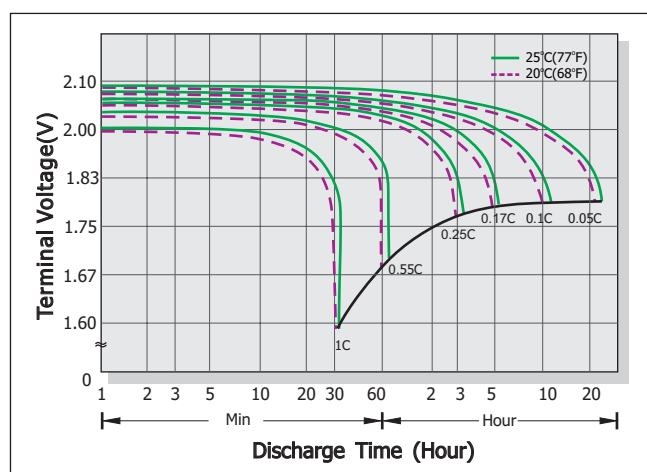
Charge Characteristic



Depth of Discharge vs. Cycles



Discharge Characteristic



Capacity Factors With Different Temperature

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
GEL Battery	6V&12V	55%	75%	85%	88%	90%	98%	100%	102%	104%	105%
	2V	65%	80%	88%	90%	92%	99%	100%	103%	105%	106%
AGM Battery	6V&12V	46%	66%	76%	83%	90%	98%	100%	103%	107%	109%
	2V	55%	70%	80%	85%	92%	99%	100%	104%	108%	110%

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