

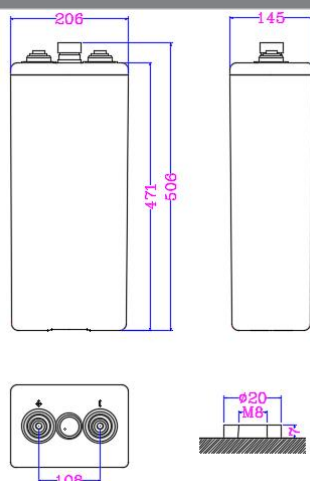
Tubular Gel - OPZV Series



OPzV420 (2V420Ah)



Layout



Specifications

Nominal Voltage	2 V	
Nominal Capacity(C10)	4200Ah(1.8V/cell@25°C)	
Dimensions	206*145*471/506(mm)	
Approx .Weight	33.2kg ±3%	
Internal Resistance	Approx.0.75mΩ@25°C	
Terminal	Φ20* M8	
Operating Temperature Range	Discharge: -20°C ~ 50°C (-4~104 °F)	
	Charge: -10°C~ 40°C (-4 ~ 104°F)	
	Storage: -20°C ~ 55°C (-4 ~ 122°F)	
Nominal Operating Temperature Range	25±3°C (77±5°F)	
Max. Charging Current	84.0A @25°C	
Charging voltage(25°C)	Float: 2 .25V ~ 2 .30V/cell	
	Temp.Coefficient: ± 3mV/cell·°C	
	Equalization: 2 .35V ~ 2 .40V/cell	
	Temp.Coefficient: ± 4mV/cell·°C	
	Cycle: 2 .35V ~ 2 .40V/cell	
	Temp.Coefficient: ± 4mV/cell·°C	
Effect of temperature to rated Capacity(C10)	40°C (104°F)	105%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3%/month@ 25°C	
Casing material	ABS(UL94 HB or V-0 optional)	

Constant Current Discharge*(Amperes @25°C/77° F)

Time	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	660	528	359	237	151	113	75.8	52.4	43.8	23.0
1.65V	631	509	351	234	149	111	75.2	52.0	43.4	22.8
1.70V	588	484	338	228	146	109	74.0	51.3	43.2	22.7
1.75V	523	442	319	218	143	107	73.0	50.7	42.6	22.3
1.80V	443	396	298	210	138	105	71.5	49.9	42.0	22.0
1.85V	360	326	256	187	126	96.6	66.2	46.5	39.2	20.6

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

Time	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	1122	924	654	445	288	216	147	103	86.7	45.5
1.65V	1095	905	646	440	285	215	145	102	86.0	45.2
1.70V	1038	870	627	432	280	211	145	101	85.4	44.8
1.75V	941	808	597	418	274	207	142	100	84.6	44.4
1.80V	810	733	566	405	268	204	140	98.7	83.3	43.7
1.85V	671	615	490	362	245	188	130	92.4	78.3	41.2



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General Features

- 25-year float design life (20°C)
- Low self-discharge, extended deep-cycle life
- Fully sealed, maintenance-free
- No acid stratification, no leakage, no flowing acid
- High recovery performance, reliable operation
- Suitable for harsh environments in float or cycle use

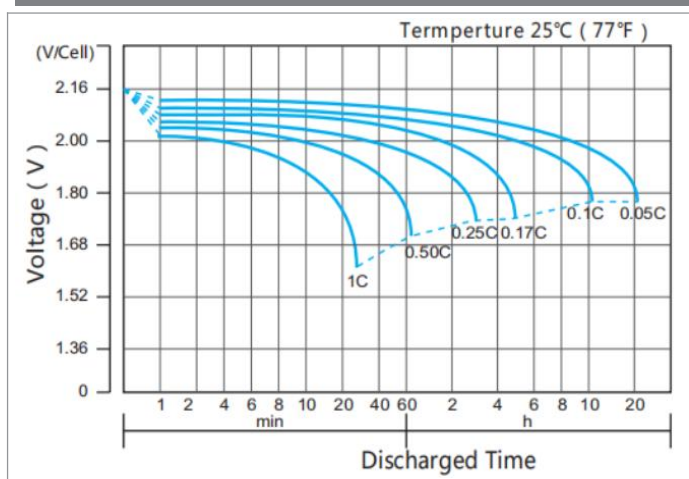
Applications

- UPS backup power
- Telecom and power
- Automation and lighting
- Solar and wind energy storage
- Marine, shipboard, and surveillance systems

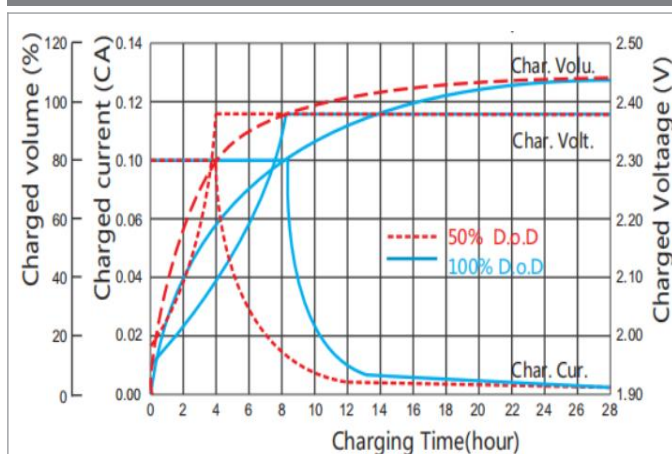
Standards

- Compliant with IEC60896, IEC61427, GB/T19638, YD/T1360-2015, YD/T799, DL/T637
- Certified for CE, and RoHS 、Recach compliance
- The company Aokly is certified under TS16949, OHSAS18001, ISO9001, SA8000 and ISO14001 management systems

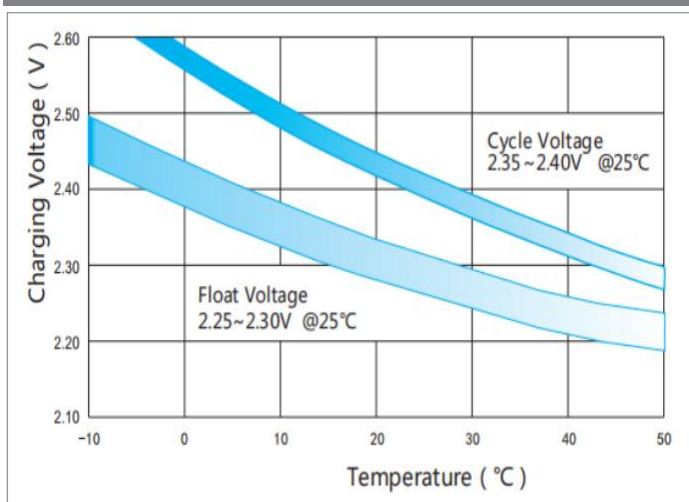
Discharge Characteristics (25°C)



Charging Characteristics (25°C)



Temperature vs Charging Voltage



Cycle Life on D.O.D (25°C)

