

OPZV2-300

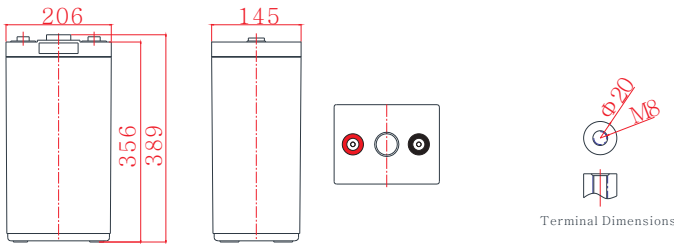


General Features

- > Nanosilica colloidal electrolyte and tubular plate design to enhance battery performance
- > Tubular plate design makes long battery life
- > Relatively rich electrolyte, high temperature and low temperature performance is superior
- > Long cycle life, excellent deep cycle discharge ability
- > Excellent charge acceptance ability
- > Precision sealing technology



Dimension: 145(L)×206(W)×356(H)×389(TH) Unit: mm



Applications

- > Solar / wind energy and other new energy storage
- > Power systems
- > Telecommunications system
- > UPS/EPS
- > Auto control system
- > Other general purpose

Specification

Nominal Voltage	2V		
Nominal Capacity	300Ah		
Design life	20 years		
Terminal	M8		
Approx. Weight	Approx 26.5kg (58.4lbs)		
Container Material	ABS		
Rated Capacity	300Ah	10Hour Rate	(30.0A to 1.80V)
	225Ah	3Hour Rate	(75A to 1.80V)
	150Ah	1Hour Rate	(150A to 1.80V)
Internal resistance	Full charged at 25°C: 0.62 mΩ		
Max. Discharge Current	1500A(5S)		
Operating Temperature	Discharge: -15 ~50°C(5~ 122°F)		
	Charge: -15 ~50°C(5~ 122°F)		
	Storage: -20 ~40°C(-4~ 104°F)		
Charge current:	Max.60A ; Recom.30A		
Charge Method (25 °C)	Float Charge:2.23-2.25V,recom.2.25V(-3mV/ °C)		
	Equalize charge:2.30-2.40V,recom.2.35V(-4mV/ °C)		
	Cycle charge:2.35-2.45V,recom.2.40V(-5mV/ °C)		
Self discharge	3% of capacity declined per month at 25°C		

Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

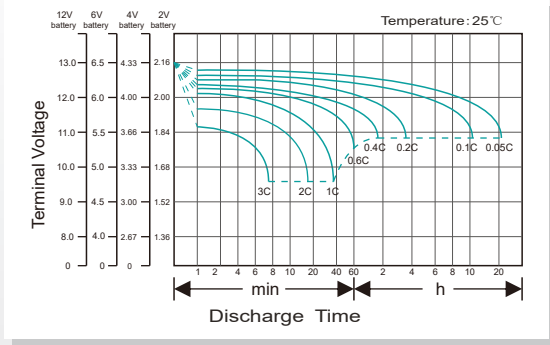
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	312	245	178	111	80	64	54.2	47.7	38.5	31.5
1.65V	294	233	168	108	79	62	53.6	47.1	38.2	31.3
1.70V	278	223	165	105	77	62	52.9	46.3	37.7	31.2
1.75V	260	211	154	102	76	61	52.0	45.4	37.0	30.7
1.80V	242	198	150	99	75	59	51.0	44.3	36.1	30.0
1.85V	223	180	138	94	71	58	49.2	42.8	35.0	29.4

Constant Power Discharge Characteristics Unit: W (25°C, 77°F)

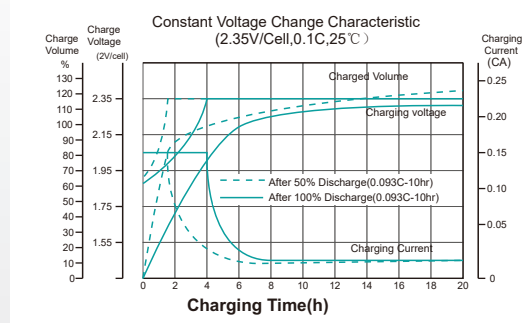
F.V/Time	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h
1.60V	538	431	325	208	151	121.0	102.9	90.7	73.5	60.3
1.65V	514	408	306	203	149	118.7	102.0	89.8	73.1	60.1
1.70V	486	392	301	199	147	118.4	101.0	88.7	72.5	60.0
1.75V	459	376	288	195	145	116.6	99.6	87.3	71.3	59.4
1.80V	434	361	276	190	143	114.2	97.7	85.2	69.6	57.8
1.85V	402	333	263	180	138	112.4	95.6	83.3	68.3	57.5

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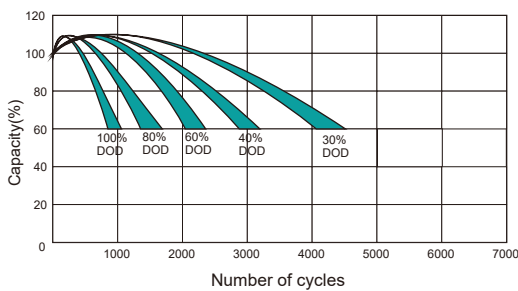
Discharge Characteristics Curve



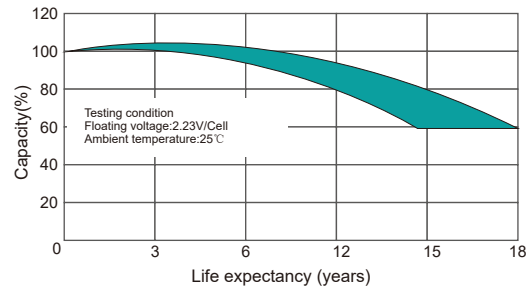
Charging Characteristics Curve



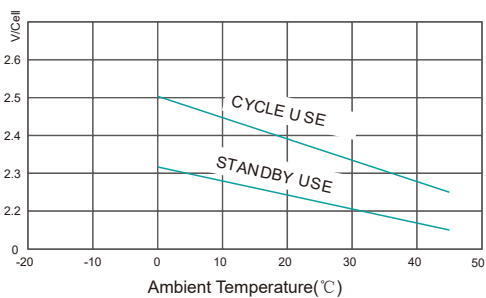
Cycle life of Different DOD



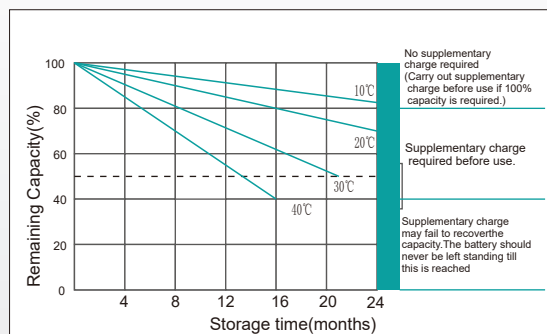
Float charging service life Curve



Charging voltage and temperature relationship



Self-discharge Characteristics



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