

OPzS2-420

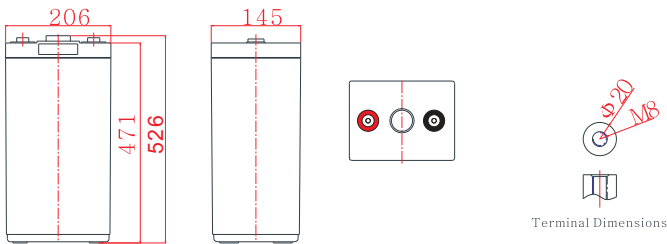


General Features

- › 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: 206 (L)×145 (W)×471 (H)×526 (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	420Ah	
Design life	20 years	
Terminal	M8	
Approx. Weight	Approx 32.0kg (71.0lbs) Dry cell 23.0Kg	
Container Material	ABS	
Rated Capacity	420Ah	10Hour Rate (42.0A to 1.80V)
	300Ah	3Hour Rate (100A to 1.80V)
	242Ah	1Hour Rate (242A to 1.75V)
Internal resistance	Full charged at 25°C: 0.50 mΩ	
Max. Discharge Current	4075A(5S)	
Operating Temperature	Discharge: -20 ~50°C(-4~ 122°F)	
	Charge: -20 ~50°C(-4~ 122°F)	
	Storage: -20 ~50°C(-4~ 122°F)	
Charge current:	Max.84A ; Recom.42A	
Charge Method (25 °C)	Float Charge:2.23-2.27V,recom.2.25V(-3mV/ °C)	
	Equalize charge:2.30-2.35V,recom.2.35V(-4mV/ °C)	
	Cycle charge:2.40-2.50V,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	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	505	353	242	151	109	74.9	53.8	44.9	26.2
1.65V	487	342	236	148	107	74.2	53.1	44.4	25.8
1.70V	459	327	229	141	105	73.0	52.9	44.1	25.5
1.75V	435	315	222	140	103	72.1	51.6	43.6	25.1
1.80V	383	288	212	135	100	70.1	50.4	42.2	24.8
1.85V	323	243	197	128	97.8	68.1	49.1	41.8	23.9

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

F.V/Time	15M	30M	1h	2h	3h	5h	8h	10h	20h
1.60V	1010	716	548	302	235	155	112	95.2	49.7
1.65V	962	678	510	300	233	154	111	94.4	49.2
1.70V	916	647	477	296	225	152	110	93.2	48.8
1.75V	868	621	449	288	220	146	108	91.4	48.3
1.80V	814	596	424	278	213	140	103	86.8	47.9
1.85V	761	573	417	267	203	136	100	83.0	46.7

