Your reliable battery solution

Shenzhen XYC Electronic Co.,Ltd.

OPZV2-200 *2V200Ah(10hr)*

OPzV series *2V TUBULAR GEL SERIES VRLA BATTERY*

The OPzV series adopts an Immobilized Gel and Tubular Positive Plate technology. It offers high reliability and stable performance. By using die-casted positive grid and patented active material formula, it exceeds the suitable for cyclic use under extreme operating conditions. This series is recommended for telecom outdoor applications, renewable energy systems and other harsh environment applications.

2 V voltage | 200 Ah capacity | Tubular gel | 20+ years design life

Design for Frequent Cyclic Charge and Discharge Applications Under Extreme Environments.

Design Life
Up to 20 years in standby service at 25°C(77°F)

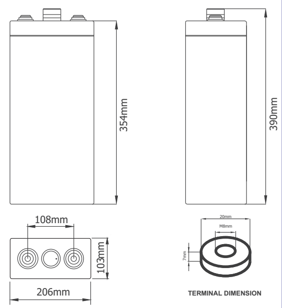
Operating Temperature Range
Nominal Operating Temperature:20°C(68°F)
Discharge:-40°C ~65°C(-40°F~149°F)
Charge:-30°C ~65°C(-22°F~149°F)
Storage:-25°C ~45°C(-13°F~113°F)

Float Charging Voltage(20~25°C)
2.25~2.29 V (-3mV/°C/cell)

Equlization Charging Voltage(20~25°C)
2.35~2.4 V (-3mV/°C/cell)

Specification

Nominal Voltage	2V		
Nominal Capacity	200Ah @10hr-rate to 1.80V per cell @20°C		
Weight	Approx.17Kg(37.5lbs)		
Maximum Discharge Current	1000A(5sec)		
Internal Resistance	Approx.1.1mohm(fully charged @20°C)		
Short Circuit Current	1800A		
Maximum Charge Current	40A		
Terminal types	Femal Copper Insert M8		
Terminal tightening torque	10~12N.m		
Container Material	ABS(UL94-V0 optional)		
Dimensions	Length(L)	206mm	8.11inch
	Width(W)	103mm	4.06inch
	Container Height(H)	354mm	13.94inch
	Overall Height(H)	390mm	15.35inch



Constant Current Discharge Characteristics: Amps (20°C)

F.V/Time	10min	15m in	30min	1h	2h	3h	5h	8h	10h
1.90V	73.4	71.3	66.7	56.0	47.7	40.0	29.6	21.2	17.5
1.87V	100	93.3	82.7	65.3	53.3	44.1	32.1	22.5	18.5
1.85V	115	105	90.7	71.3	58.8	47.4	34.2	23.5	19.2
1.83V	134	117	98.0	78.7	62.8	50.1	35.0	24.3	19.6
1.80V	150	136	110	86.7	66.2	52.5	35.7	24.6	20.0
1.75V	159	149	129	94.3	69.2	54.0	36.4	25.0	20.6
1.70V	173	164	141	100	71.8	55.0	37.0	25.4	21.0
1.65V	202	185	154	106	73.9	56.0	37.8	25.8	21.4
1.60V	220	203	163	109	75.4	57.0	38.6	26.3	21.8

Constant Power Discharge Characteristics: W/cell (20°C)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.90V	142	138	130	110	94.2	79.6	59.3	42.6	35.4
1.87V	189	178	158	126	104	86.8	63.8	45.0	37.1
1.85V	215	198	171	136	114	92.4	67.3	46.7	38.2
1.83V	247	218	183	148	120	96.6	68.0	47.7	38.6
1.80V	273	249	202	162	125	100	68.7	47.8	39.0
1.75V	285	269	234	173	129	101	69.1	48.0	39.7
1.70V	306	291	254	181	132	102	69.5	48.3	40.1
1.65V	350	323	272	190	134	103	70.2	48.5	40.5
1.60V	374	347	283	192	135	103	70.8	48.9	40.8

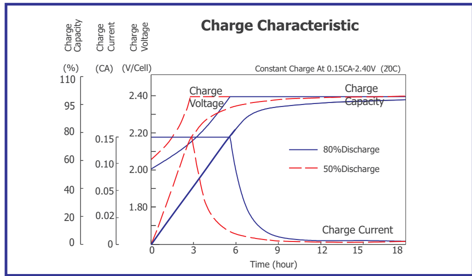
PARAMETERS FOR SOLAR & WIND APPLICATIONS

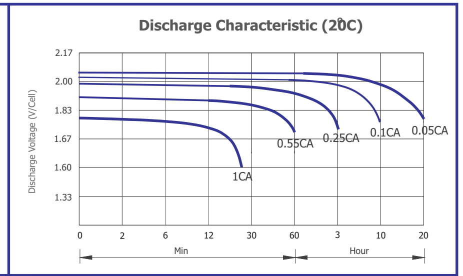
Long time discharge capacity for Solar & Wind applications

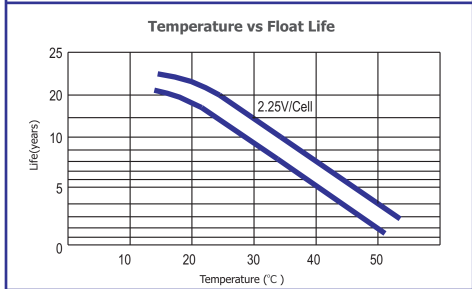
Capacity	C_{20} (Ah)	C_{24} (Ah)	C_{48} (Ah)	C_{72} (Ah)	C_{100} (Ah)	C_{120} (Ah)	C_{240} (Ah)
OPzV2-200	220	226	244	252	255	258	265
Final Voltage	1.80V	1.85V					

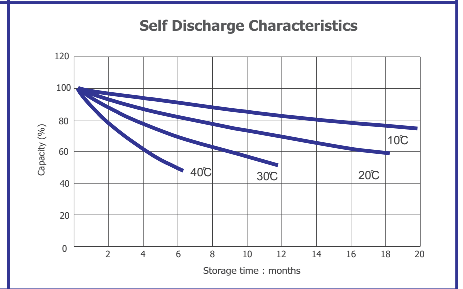
Solar & Wind applications parameters settings

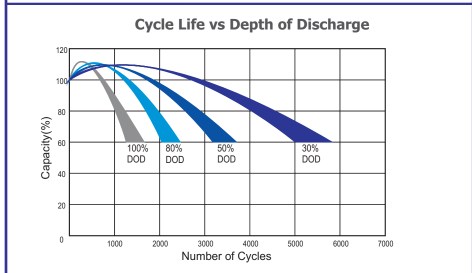
Over voltage disconnect:	2.45±0.01V/cell @ 20~25°C
Regulation/equalize voltage:	2.40±0.01V/cell @ 20~25°C
Array roconnection voltage:	2.25±0.005V/cell @ 20~25°C
Float voltage setting:	2.27±0.005V/cell @ 20~25°C
Low voltage alarm voltage:	1.95±0.005V/cell @ 20~25°C
Low voltage disconnect:	1.90±0.005V/cell @ 20~25°C
Load reconnect voltage:	2.09±0.01V/cell @ 20~25°C
Temp. compensate coefficienty:	-5mV/cell/°C

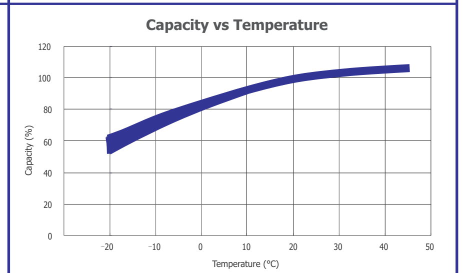


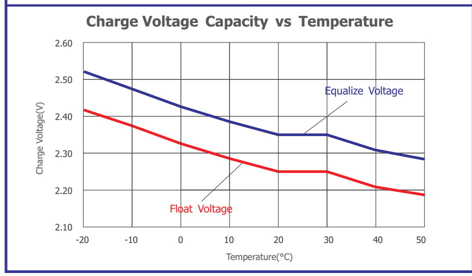


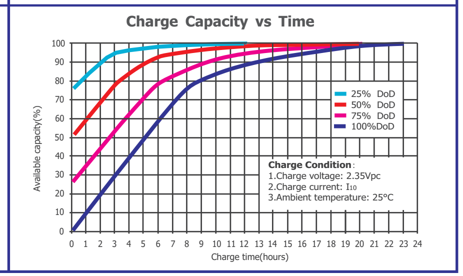












FINAL VOLTAGE SETTINGS RECOMMENDED ACCORDING TO THE DISCHARGE CURRENT

Discharge Current I (A)	I < 0.05C	0.05C ≤ I < 0.08C	0.08C ≤ I < 0.2C	0.2C ≤ I < 0.6C	0.6C ≤ I < 1.0C	1C≤I ≤ 2C
Final Voltage	≥1.90 Vpc	≥1.85 Vpc	≥1.80 Vpc	≥1.75 Vpc	≥1.7 Vpc	≥1.6 Vpc

www.xyc-battery.com