Your reliable battery solution

Shenzhen XYC Electronic Co.,Ltd.

OPzV2-800 2V800Ah(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 | 800 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)

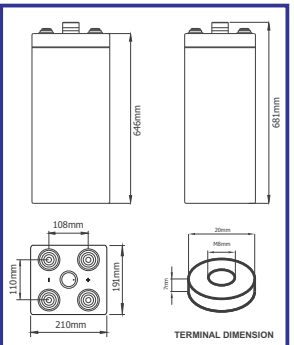
2.25~2.29 V (-3mV/°C/cell)

Equlization Charging Voltage(20~25°C)

2.35~2.4 V (-3mV/°C/cell)

Specification

Nominal Voltage	2V		
Nominal Capacity	800Ah @10hr-rate to 1.80V per cell @20°C		
Weight	Approx.60.0Kg(132.3lbs)		
Maximum Discharge Current	2000A(5sec)		
Internal Resistance	Approx.0.46mohm(fully charged @20°C)		
Short Circuit Current	4300A		
Maximum Charge Current	160A		
Terminal types	Femal Copper Insert M8		
Terminal tightening torque	10~12N.m		
Container Material	ABS(UL94-V0 optional)		
Dimensions	Length(L)	210mm	8.27inch
	Width(W)	191mm	7.48inch
	Container Height(H)	646mm	25.43inch
	Overall Height(H)	681mm	26.81inch



TERMINAL DIMENSION

Constant Current Discharge Characteristics: Amps (20°C)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.90V	289	281	263	221	188	158	117	83.5	69.7
1.87V	394	368	326	257	210	174	127	88.7	73.6
1.85V	453	415	357	281	232	187	135	92.8	76.5
1.83V	528	462	386	310	247	197	138	95.7	78.0
1.80V	591	536	432	341	261	207	141	96.9	80.0
1.75V	626	588	507	372	273	213	143	98.5	81.2
1.70V	682	646	557	393	283	217	146	100	82.7
1.65V	796	728	607	418	291	221	149	102	84.3
1.60V	867	799	644	431	297	225	152	104	85.9

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

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.90V	558	544	511	433	371	314	234	168	141
1.87V	746	699	624	497	411	342	251	177	148
1.85V	846	779	675	537	447	364	265	184	152
1.83V	975	857	721	585	473	380	268	186	154
1.80V	1075	980	797	637	493	395	271	188	155
1.75V	1122	1059	922	684	508	400	272	189	156
1.70V	1204	1147	999	713	521	403	274	190	158
1.65V	1381	1271	1072	748	529	405	276	191	159
1.60V	1474	1367	1115	758	532	406	279	193	161

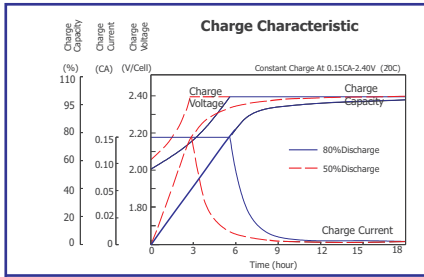
PARAMETERS FOR SOLAR & WIND APPLICATIONS

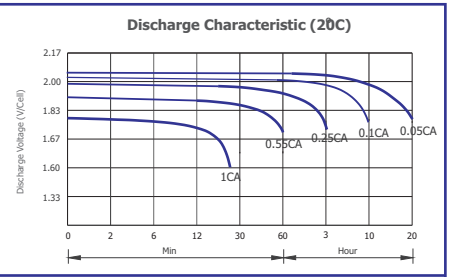
Long time discharge capacity for Solar & Wind applications

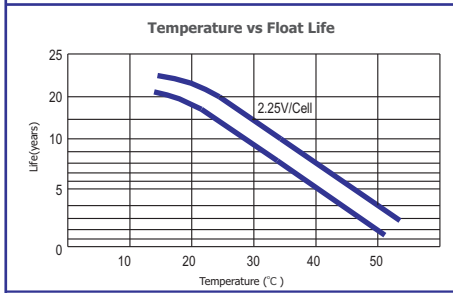
Capacity	C20 (Ah)	C24 (Ah)	C48 (Ah)	C72 (Ah)	C100 (Ah)	C120 (Ah)	C240 (Ah)
OPzV2-800	870	900	976	1008	1020	1032	1055
Final Voltage	1.80V	1.85V					

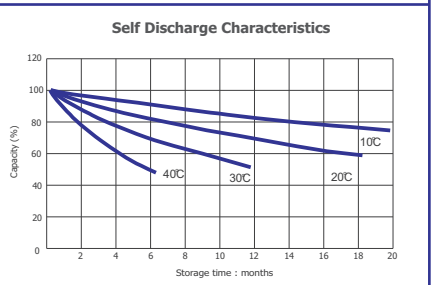
Solar & Wind applications parameters settings

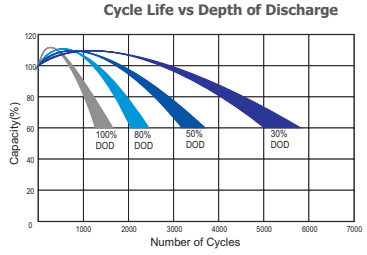
Over voltage disconnect:	2.45±0.01V/cell @ 20～25°C
Regulation/equalize voltage:	2.40±0.01V/cell @ 20～25°C
Array roconnection voltage:	2.25±0.005V/cell @ 20～25°C
Float voltage setting:	2.27±0.005V/cell @ 20～25°C
Low voltage alarm voltage:	1.95±0.005V/cell @ 20～25°C
Low voltage disconnect:	1.90±0.005V/cell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

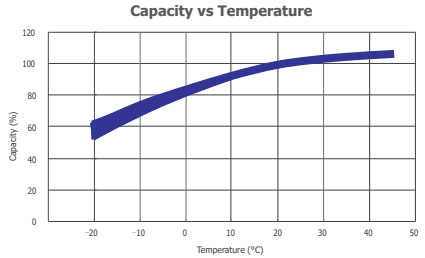


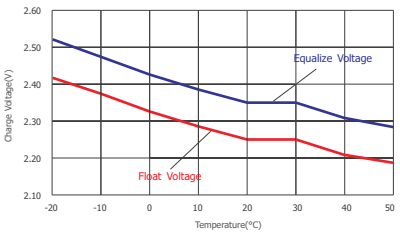


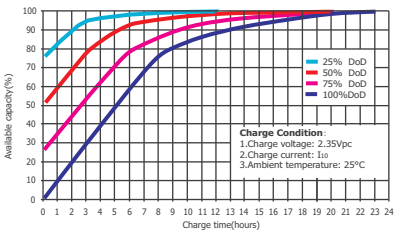












FINAL VOLTAGE SETTINGS RECOMMENDED ACCORDING TO THE DISCHARGE CURRENT

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 of Voltage	≥1.90 Vpc	≥1.85 Vpc	≥1.80 Vpc	≥1.75 Vpc	≥1.7 Vpc	≥1.6 Vpc

www.xyc-battery.com

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