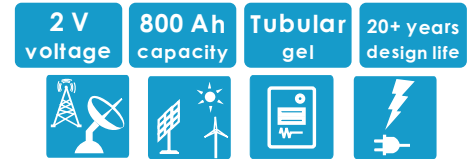


## 2V TUBULAR GEL SERIES VRLA BATTERY

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 DIN standard values and offer 20+ years design life in float service. It is very suitable for cyclic use under extreme operating conditions. This series is recommended for telecom outdoor applications, renewable energy systems and other harsh environment applications.



### SPECIFICATIONS

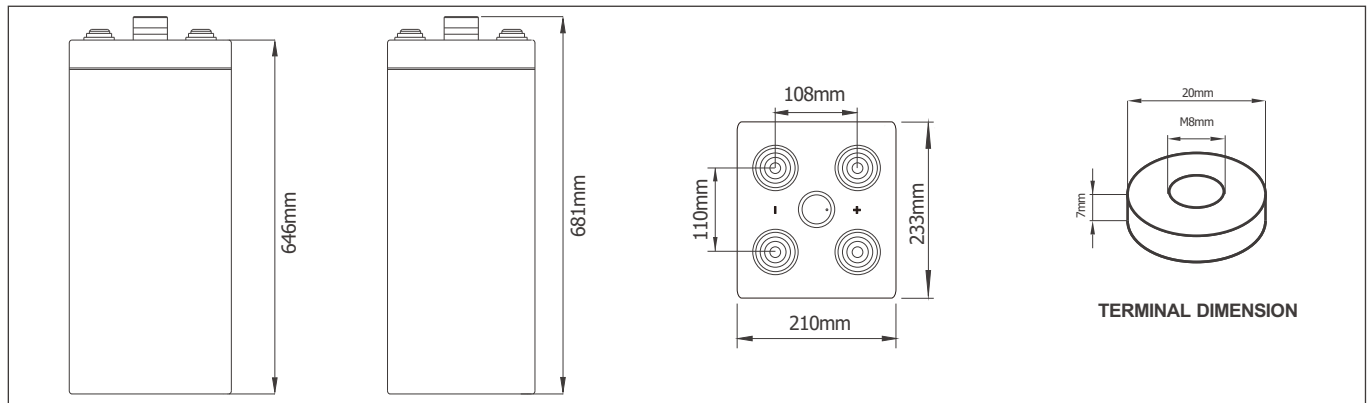
Nominal Voltage (V)	2
Designed Floating Life (20°C)	20+ Years
Nominal Capacity (20°C)	800 Ah @ C <sub>10</sub> (to 1.80Vpc)
Dimensions	L233mm × W210mm × H681mm
Approx. Weight	71.8 kg
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.52mOhm (fully charged @ 25°C)
Max. Charge Current	160 A
Max. Discharge Current (5S)	2000 A
Short Circuit Current	4300 A
Self Discharge	Approx. 2% per month @ 20°C
Ambient Temperature	Discharge: -40~65°C Charge: -30~65°C Storage: -25~45°C
Float Charge Voltage	2.23V @25°C (-3mV / °C/ cell)
Equalize Charge Voltage	2.35V @25°C
Container Material	ABS(UL94-V0 optional)



### Complied standards

- IEC 60896-21/22
- DIN40472
- IEC61427
- YD/T1360
- Eurobat guide, long life
- BS6290 part 4
- UL1989

### DIMENSIONS



### BATTERY DISCHARGE TABLE

#### Constant Current Discharge Characteristics: Amps (20°C)

F.V/Time	10m in	15m in	30m in	1h	2h	3h	5h	8h	10h
1.90V	289	281	263	221	188	158	117	83.5	70.0
1.87V	394	368	326	257	210	174	127	88.7	74.0
1.85V	453	415	357	281	232	187	135	92.8	76.9
1.83V	528	462	386	310	247	197	138	95.7	78.4
1.80V	591	536	432	341	261	207	141	96.9	80.0
1.75V	626	588	507	372	273	213	143	98.5	82.4
1.70V	682	646	557	393	283	217	146	100	84.0
1.65V	796	728	607	418	291	221	149	102	85.6
1.60V	867	799	644	431	297	225	152	104	87.2

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

F.V/Time	10m in	15m in	30m in	1h	2h	3h	5h	8h	10h
1.90V	558	544	511	433	371	314	234	168	139
1.87V	746	699	624	497	411	342	251	177	146
1.85V	846	779	675	537	447	364	265	184	151
1.83V	975	857	721	585	473	380	268	186	152
1.80V	1075	980	797	637	493	395	271	188	154
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

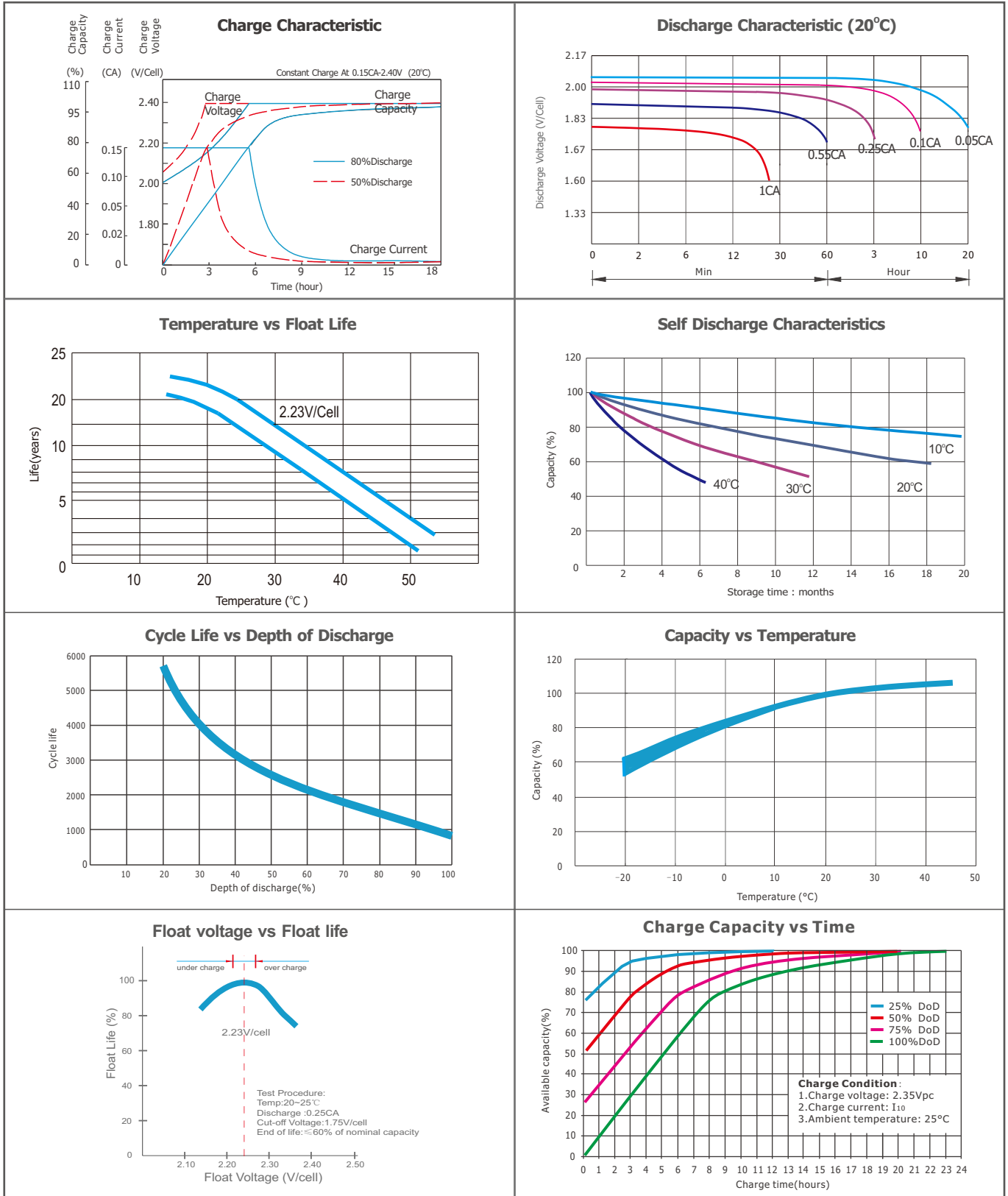
Long time discharge capacity for Solar & Wind applications

Capacity	C <sub>20</sub> (Ah)	C <sub>24</sub> (Ah)	C <sub>48</sub> (Ah)	C <sub>72</sub> (Ah)	C <sub>100</sub> (Ah)	C <sub>120</sub> (Ah)	C <sub>240</sub> (Ah)
OPzV2-800	870	900	976	1008	1020	1032	1055
Final Voltage	1.80V						

#### Solar & Wind applications parameters settings

Over voltage disconnect:	2.45±0.01V/cell @ 25°C
Regulation/equalize voltage:	2.40±0.01V/cell @ 25°C
Array reconnection voltage:	2.25±0.005V/cell @ 25°C
Float voltage setting:	2.27±0.005V/cell @ 25°C
Low voltage alarm voltage:	1.95±0.005V/cell @ 25°C
Low voltage disconnect:	1.90±0.005V/cell @ 25°C
Load reconnect voltage:	2.09±0.01V/cell @ 25°C
Temp. compensate coefficient:	-3~-5mV/cell/°C

**CHARACTERISTICS**



**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	≥1.90Vpc	≥1.85Vpc	≥1.80 Vpc	≥1.75 Vpc	≥1.7 Vpc	≥1.6 Vpc