

OPzV2-600(2V600Ah)

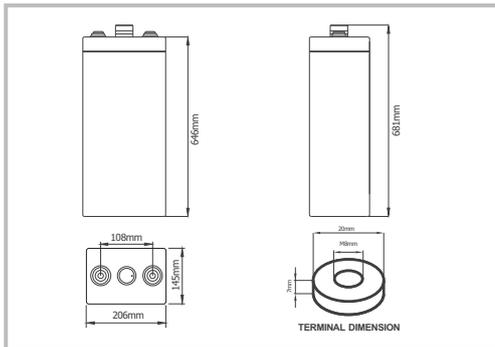


2V TUBULAR GEL SERIES VRLA BATTERY

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.



DIMENSIONS



2V

600Ah

Tubular Gel

20 years design life

SPECIFICATIONS

Nominal Voltage (V)	2
Designed Floating Life (20°C)	20+ Years
Nominal Capacity (20°C)	600 Ah @ C10 (to 1.80Vpc)
Dimensions	L145mm×W206mm×H681mm
Approx. Weight	42.0 kg (92.6 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.63mOhm (fully charged @ 20°C)
Max. Charge Current	120 A
Max. Discharge Current (5S)	2000 A
Short Circuit Current	3100 A
Self Discharge	Approx. 2% per month @ 20°C
Ambient Temperature	Discharge: -40~60°C Charge: -15~50°C Storage: -15~40°C
Float Charge Voltage (20~25°C)	2.25-2.29V (-3mV / °C/ cell)
Equalize Charge Voltage (20~25°C)	2.35-2.40V (-5mV / °C/ cell)
Container Material	ABS(UL94-V0 optional)

ISO9001

ISO14001

Complied standards

- IEC 60896-21/22
- DIN40742
- IEC61427
- YD/T1360
- Eurobat guide, long life
- BS6290 part 4
UL1989

BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (20°C)									
F.V/Tim e	10m in	15m in	30m in	1h	2h	3h	5h	8h	10h
1.90V	220	214	200	168	143	120	88.9	63.6	52.5
1.87V	300	280	248	196	160	132	96.4	67.5	55.5
1.85V	345	316	272	214	176	142	103	70.6	57.7
1.83V	402	352	294	236	188	150	105	72.9	58.8
1.80V	450	408	329	260	199	158	107	73.8	60.0
1.75V	477	448	386	283	208	162	109	75.0	61.8
1.70V	519	492	424	299	216	165	111	76.2	63.0
1.65V	606	554	462	318	222	168	113	77.4	64.2
1.60V	660	608	490	328	226	171	116	78.9	65.4

Constant Power Discharge Characteristics: W/cell (20°C)									
F.V/Tim e	10m in	15m in	30m in	1h	2h	3h	5h	8h	10h
1.90V	425	414	389	330	283	239	178	128	106
1.87V	568	533	475	379	313	260	191	135	111
1.85V	644	593	514	409	341	277	202	140	115
1.83V	742	653	549	445	360	290	204	142	116
1.80V	819	746	607	485	375	301	206	143	117
1.75V	854	806	702	520	386	304	207	144	119
1.70V	917	873	761	543	397	307	209	145	120
1.65V	1051	968	816	569	403	308	210	146	121
1.60V	1122	1041	849	577	405	309	213	147	122

PARAMETERS FOR SOLAR & WIND APPLICATIONS

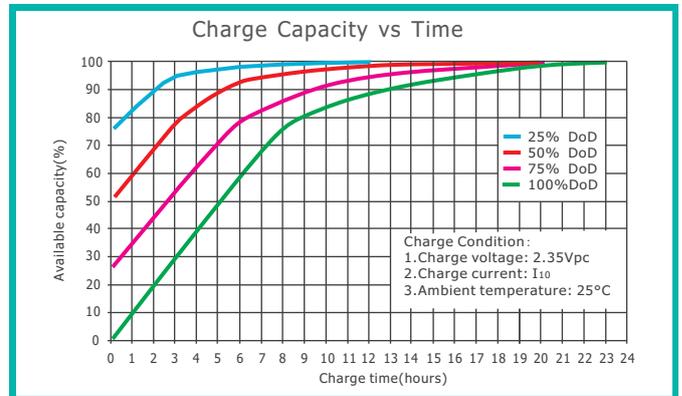
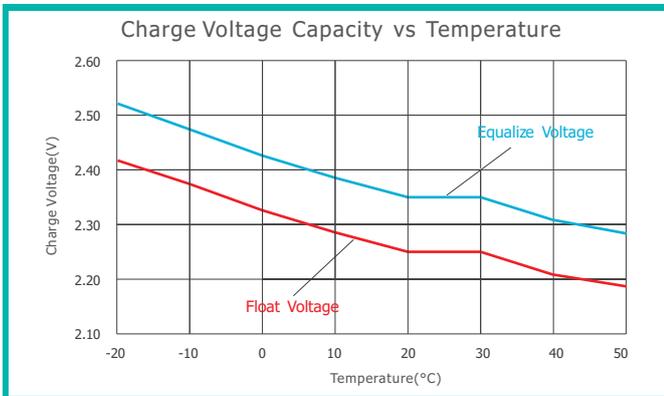
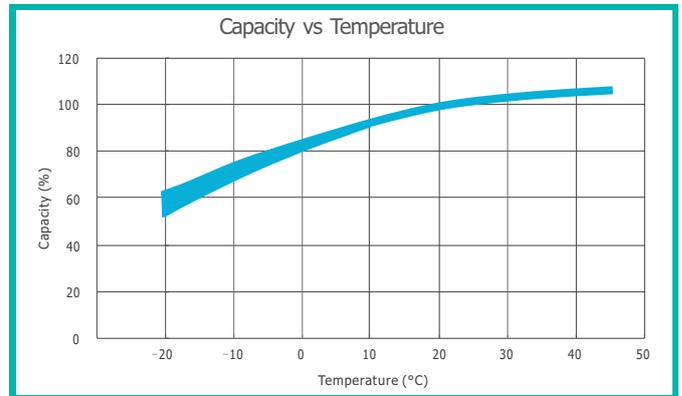
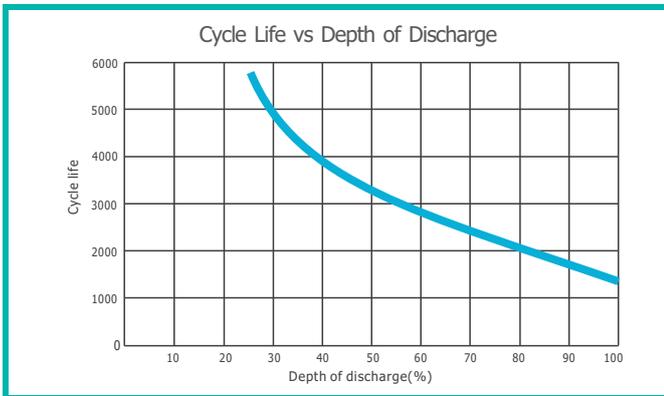
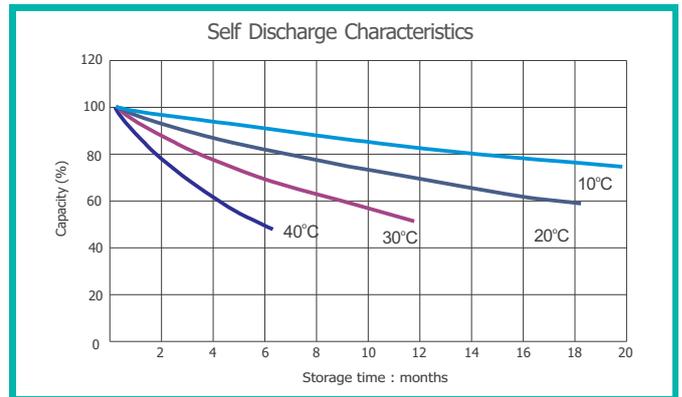
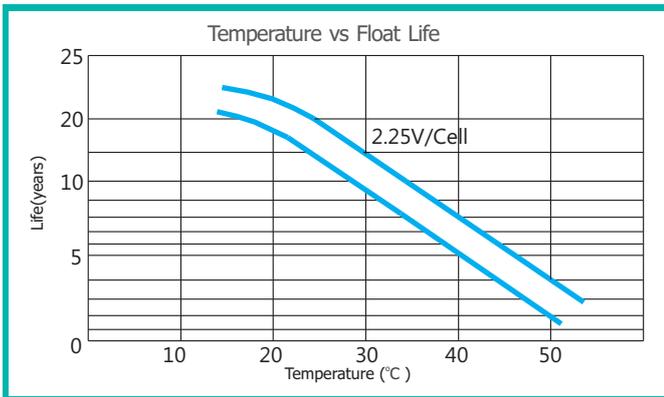
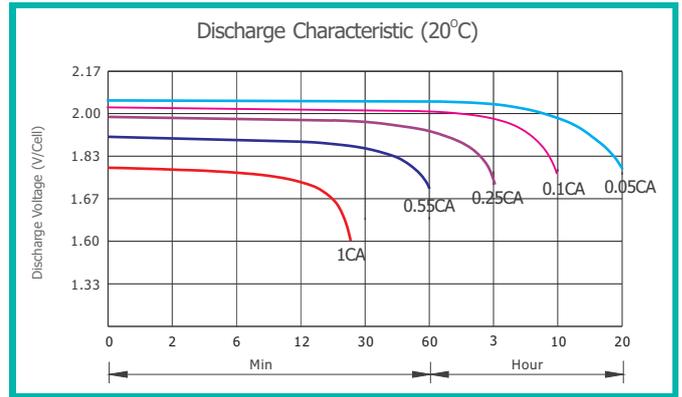
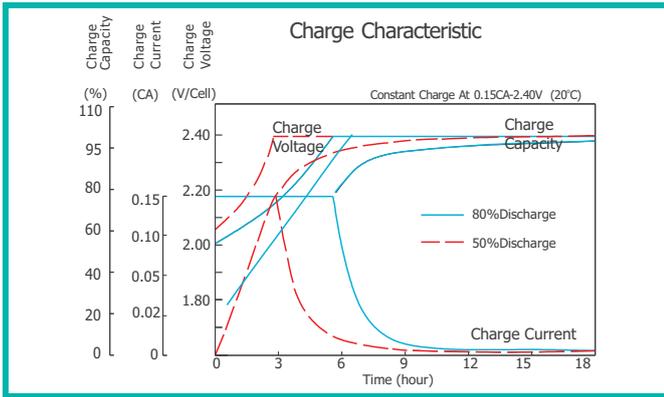
Long time discharge capacity for Solar & Wind applications

Capacity	C20 (Ah)	C24 (Ah)	C48 (Ah)	C72 (Ah)	C100 (Ah)	C120 (Ah)	C240 (Ah)
OPzV2-600	648	660	690	720	750	762	780
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 reconnection 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 coefficient:	-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	≥1.90 Vpc	≥1.85 Vpc	≥1.80 Vpc	≥1.75 Vpc	≥1.7 Vpc	≥1.6 Vpc