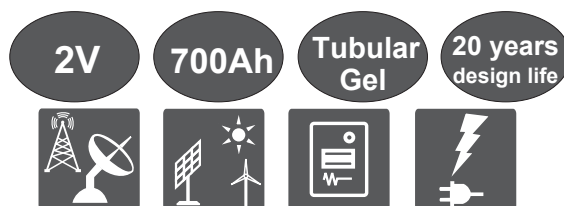
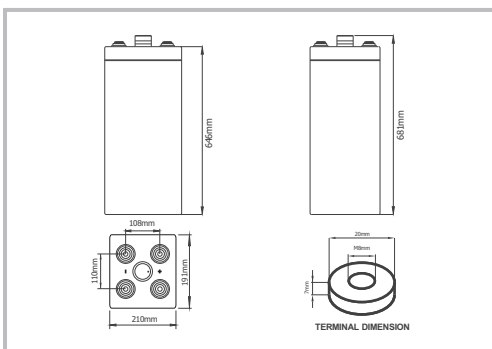


2V TUBULAR GEL SERIES VRLA BATTERY

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



SPECIFICATIONS

Nominal Voltage (V)	2
Designed Floating Life (20°C)	20+ Years
Nominal Capacity (20°C)	700 Ah @ C ₁₀ (to 1.80Vpc)
Dimensions	L191mm×W210mm×H681mm
Approx. Weight	50.0 kg (110.2 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.55mOhm (fully charged @ 20°C)
Max. Charge Current	140 A
Max. Discharge Current (5S)	2800 A
Short Circuit Current	3600 A
Self Discharge	Approx. 2% per month @ 20°C
Ambient Temperature	Discharge: -20~55°C Charge: -20~55°C Storage: -20~55°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 /Time	30 min	1 h	2 h	3 h	5 h	6h	8h	10h	20h
1.60V	604	408	252	185	129	108	88.6	75.8	38.2
1.65V	575	388	239	182	125	107	84.9	73.6	37.1
1.70V	558	377	235	181	124	107	84.2	71.8	37.0
1.75V	544	370	231	176	123	106	83.5	70.6	36.8
1.80V	523	359	225	171	120	103	81.8	70.0	36.6
1.85V	498	340	214	166	114	98	78.9	68.8	35.3

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

F.V /Time	30 min	1 h	2 h	3 h	5 h	6h	8h	10h	20h
1.60V	1135	799	476	370	255	215	174	148	75.2
1.65V	1083	761	458	358	247	212	168	144	74.5
1.70V	1042	736	453	354	245	210	167	139	74.1
1.75V	1017	718	446	352	244	208	166	138	73.8
1.80V	979	682	435	340	236	202	160	137	73.1
1.85V	942	647	413	323	224	192	152	130	69.5

PARAMETERS FOR SOLAR & WIND APPLICATIONS

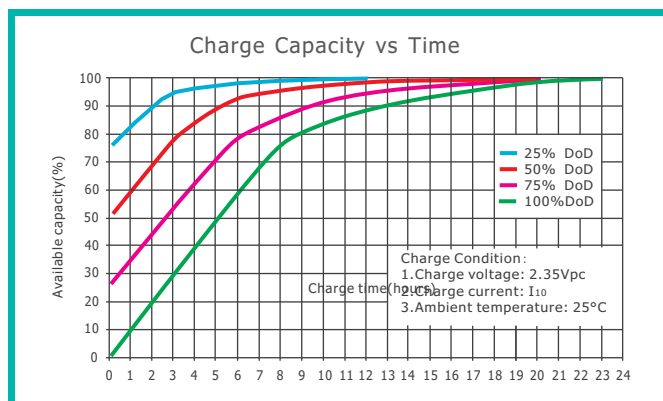
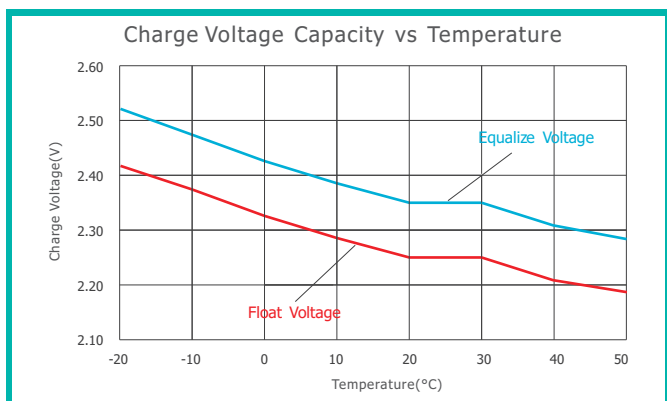
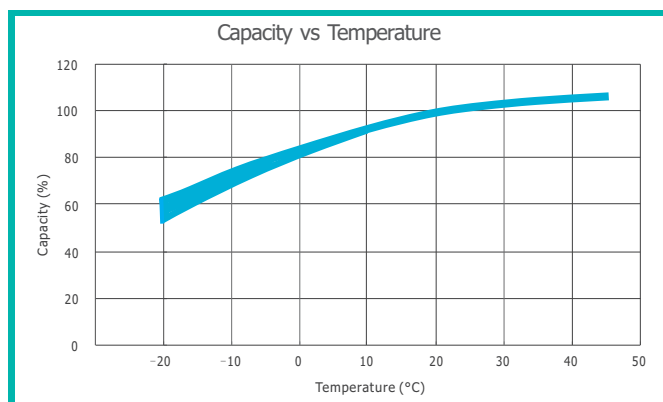
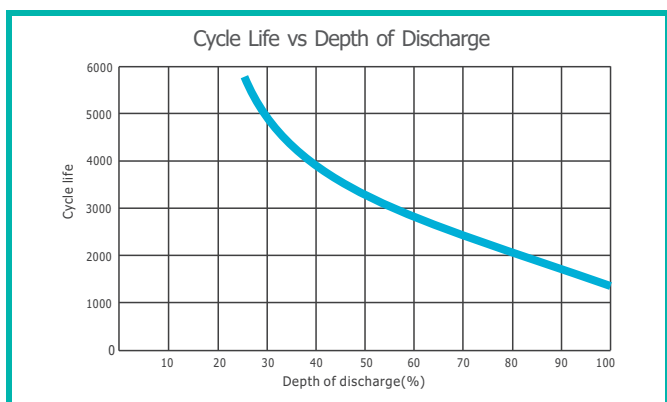
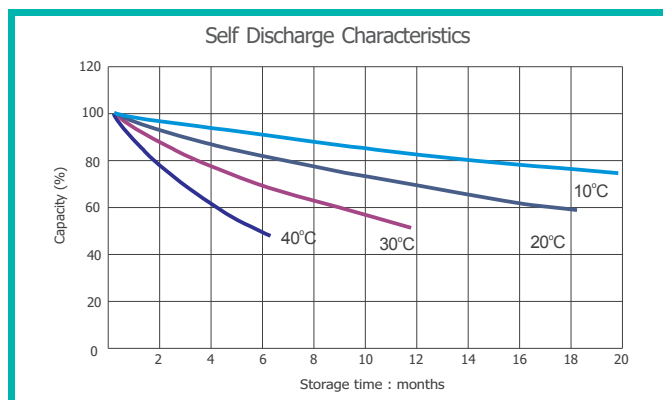
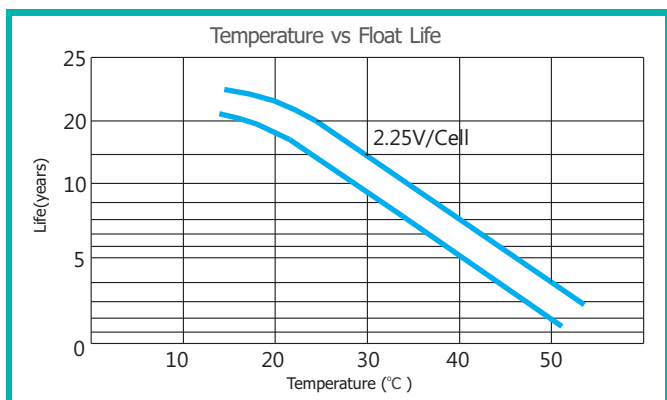
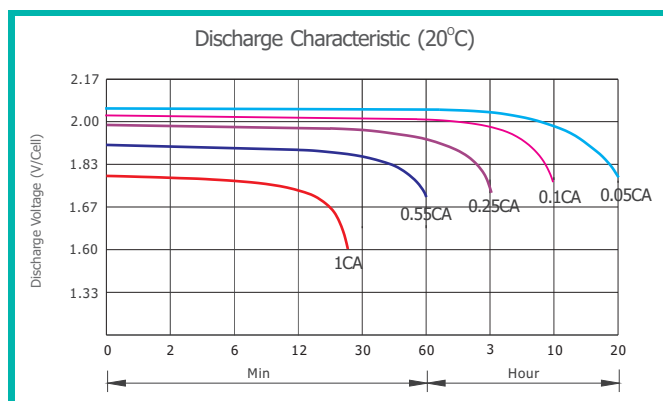
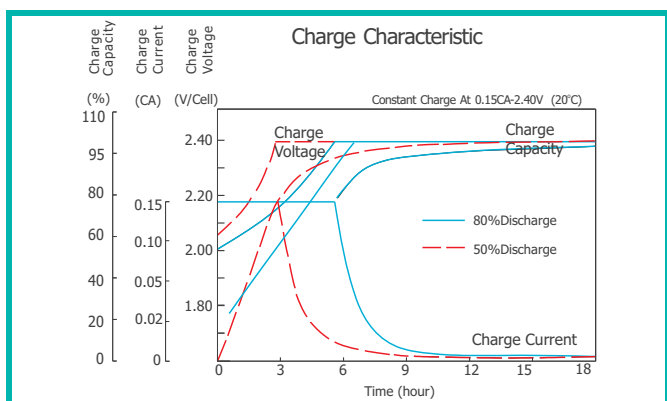
Long time discharge capacity for Solar & Wind applications

Capacity	C ₂₀ (Ah)	C ₂₄ (Ah)	C ₄₈ (Ah)	C ₇₂ (Ah)	C ₁₀₀ (Ah)	C ₁₂₀ (Ah)	C ₂₄₀ (Ah)
OPzV2-700	735	770	805	840	875	890	910
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)	$I < 0.05C$	$0.05C \leq I < 0.08C$	$0.08C \leq I < 0.2C$	$0.2C \leq I < 0.6C$	$0.6C \leq I < 1.0C$	$1C \leq I \leq 2C$
Final of Voltage	$\geq 1.90V_{pc}$	$\geq 1.85V_{pc}$	$\geq 1.80V_{pc}$	$\geq 1.75V_{pc}$	$\geq 1.70V_{pc}$	$\geq 1.60V_{pc}$