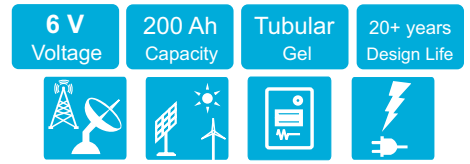


6V TUBULAR GEL SERIES VRLA BATTERY

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)	6
Designed Floating Life (20°C)	20+ Years
Nominal Capacity (20°C)	200 Ah @ C ₁₀ (to 1.80Vpc)
Dimensions	L272mm×W205mm×H336mm
Approx. Weight	48.5 kg (106.92 lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 3.5mOhm (fully charged @ 20°C)
Max. Charge Current	40 A
Max. Discharge Current (5S)	1000 A
Short Circuit Current	1730 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 (20~25°C)	6.75-6.85V (-3mV / °C/ cell)
Equalize Charge Voltage (20~25°C)	7.05-7.20V (-5mV / °C/ cell)
Container Material	ABS(UL94-V0 optional)

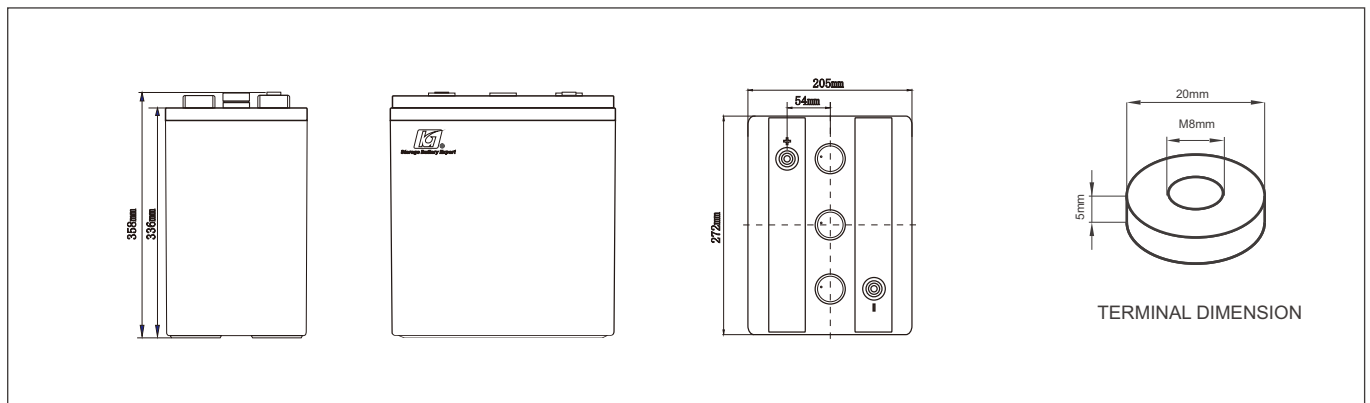


ISO9001 ISO14001

Complied standards

- IEC 60896-21/22
- UL1989
- JIS C8704
- GB/T19639

DIMENSIONS



BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (20°C)

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.90V	73.4	71.2	66.6	56.0	47.6	40.0	29.6	21.2	17.6
1.87V	100	93.4	82.4	65.2	53.4	44.2	32.2	22.6	18.5
1.85V	115	103	90.2	71.4	58.8	47.4	34.0	23.5	19.3
1.83V	134	117	98.0	78.8	62.8	50.2	35.0	24.2	19.6
1.80V	150	136	111	86.4	66.2	52.6	35.6	24.6	20.0
1.75V	159	149	128	94.6	69.2	54.0	36.4	25.0	20.6
1.70V	172	164	141	100	72.0	55.0	37.0	25.4	21.0
1.65V	202	185	154	106	74.0	56.0	37.8	25.8	21.4
1.60V	220	202	163	109	75.2	57.0	38.6	26.2	21.8

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

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.90V	141	138	130	110	940	79.6	59.2	42.4	35.4
1.87V	189	177	159	126	104	86.4	63.8	45.0	37.0
1.85V	214	197	171	136	113	92.8	67.2	46.6	38.2
1.83V	246	216	183	148	120	96.6	680	47.6	38.6
1.80V	272	248	202	161	125	100	68.4	47.8	39.0
1.75V	284	268	234	173	128	101	69.2	48.0	39.6
1.70V	306	292	252	181	132	101	700	48.4	40.0
1.65V	350	322	272	190	134	102	70.6	48.6	40.4
1.60V	374	346	282	192	135	103	71.2	49.0	40.8

PARAMETERS FOR SOLAR & WIND APPLICATIONS

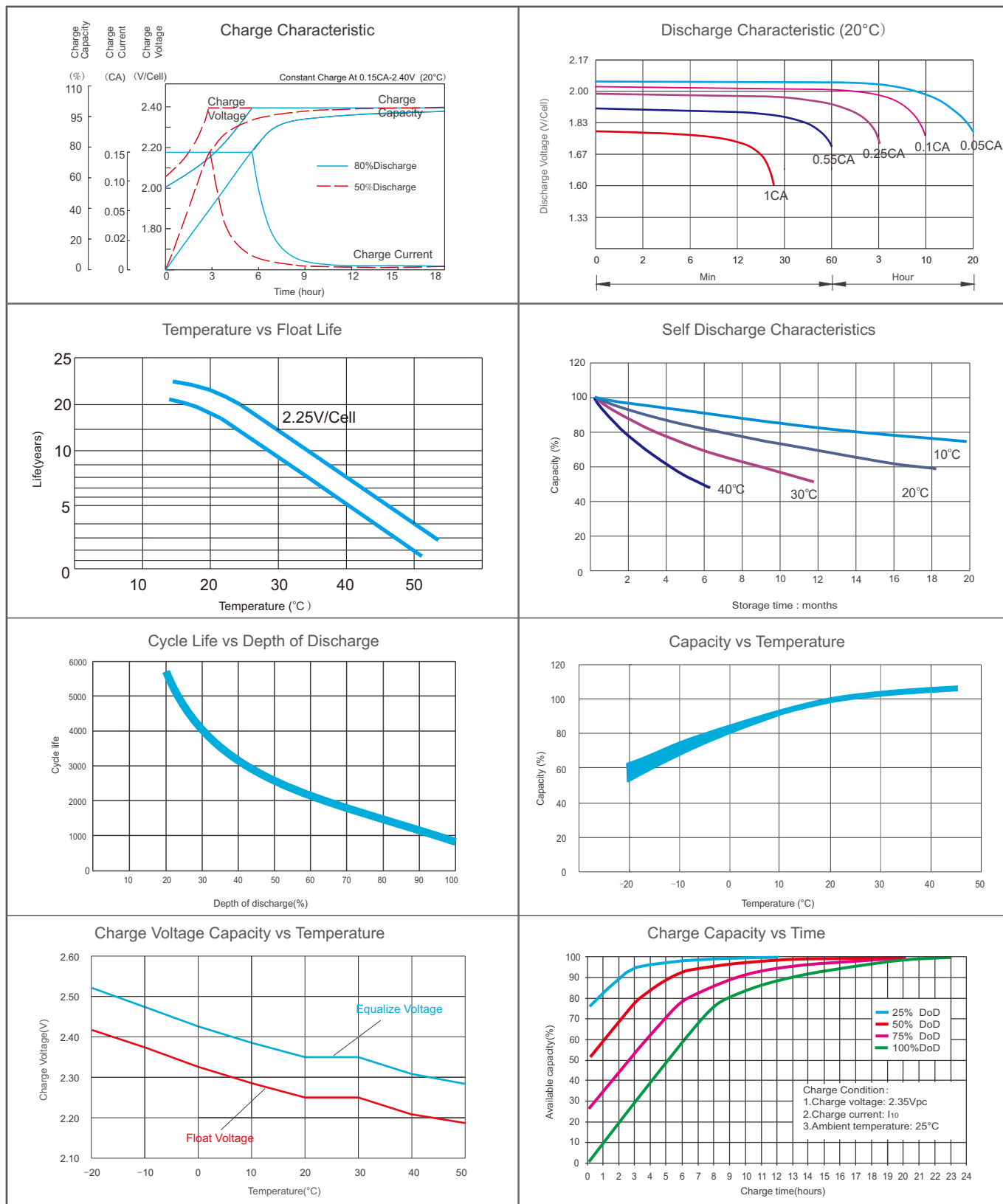
Long time discharge capacity for Solar & Wind applications

Capacity	C ₂₀ (Ah)	C ₂₄ (Ah)	C ₄₈ (Ah)	C ₇₂ (Ah)	C ₁₀₀ (Ah)	C ₁₂₀ (Ah)	C ₂₄₀ (Ah)
OPzV 6-200	216	226	244	252	256	258	264
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