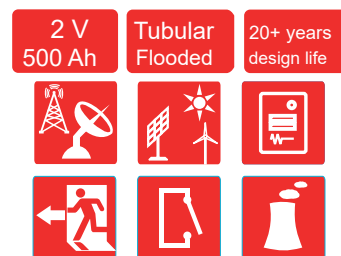


2V TUBULAR FLOODED SERIES BATTERY

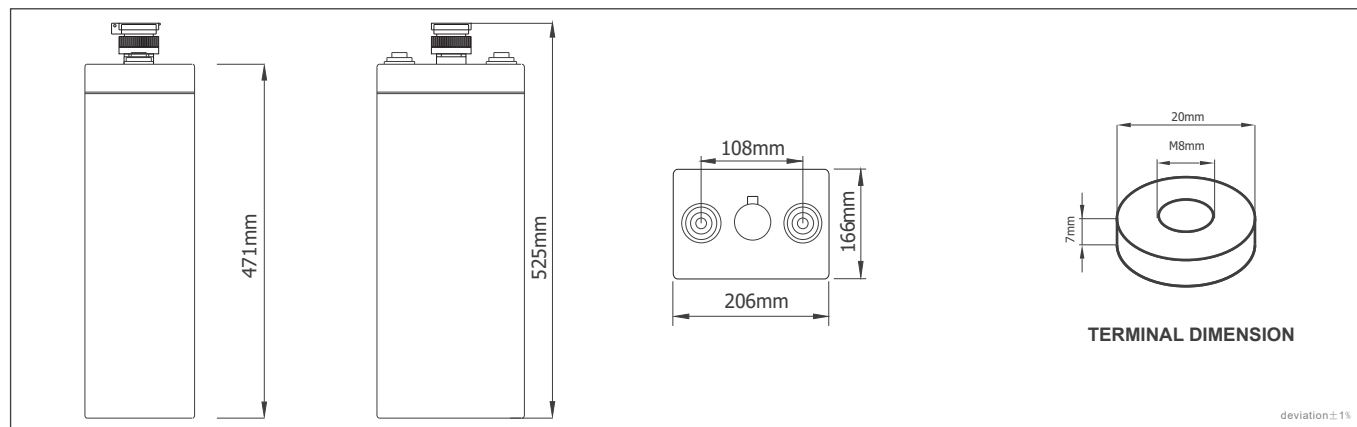
The ReFortis OPzS series is a traditional tubular plate flooded battery which offers 20+ years design life according to the standard IEC60896-11. With a new design and technical improvement, it offers maximum efficiency and reliability for the widest variety of applications. This series is highly suited for all standby power applications that require the highest levels and security of reliability

TECHNICAL SPECIFICATIONS

Nominal Voltage (V)	2
Designed Floating Life (20°C)	20+ Years
Nominal Capacity (20°C)	500 Ah @ C ₁₀ (to 1.80Vpc)
Dimensions	L166mm×W206mm×H525mm
Approx. Weight	Without electrolyte: 26.0Kg(57.3lbs) With electrolyte: 36.0Kg (79.4lbs)
Electrolyte	Diluted sulphuric acid of 1.240 g/cm ³ (20°C) Acid weight: 10.0Kg
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.55mOhm (fully charged @ 20°C)
Max. Charge Current	100 A
Max. Discharge Current (5S)	1200 A
Short Circuit Current	3650 A
Self Discharge	Approx. 4% per month @ 20°C
Ambient Temperature	Discharge: -25~65°C) Charge: -20~65°C Storage: -15~40°C
Float Charge Voltage (20~25°C)	2.21-2.25V (-3mV /°C/ cell)
Equalize Charge Voltage (20~25°C)	2.35-2.40V (-5mV /°C/ cell)
Container Material	SAN



BATTERY DIMENSIONS



BATTERY DISCHARGE TABLE

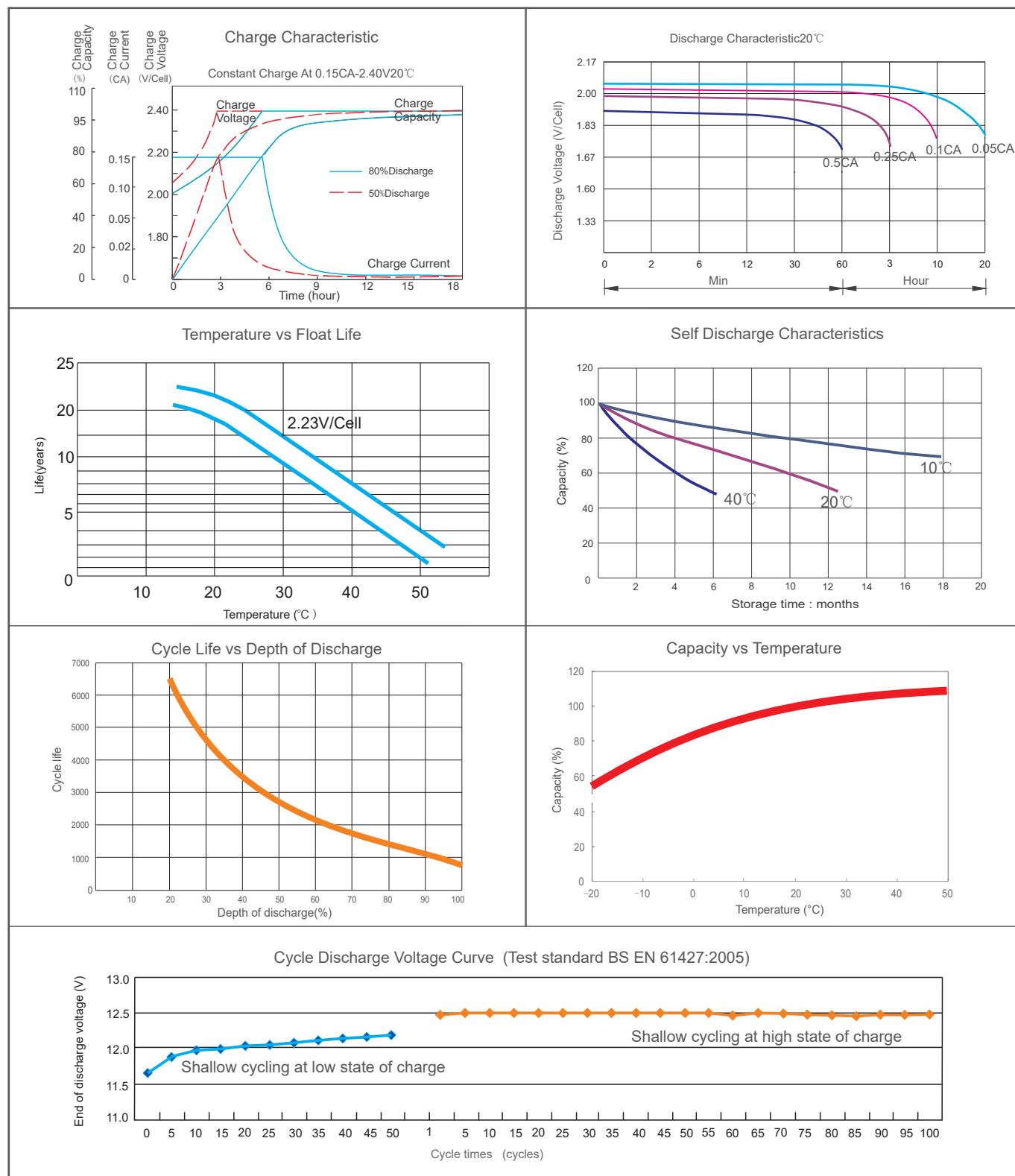
Constant Current Discharge Characteristics: Amps (20°C)

F.V./Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8 h	10 h	20h
1.90V	200	182	165	162	150	117	94.5	79.5	69.5	51.5	45.5	25.0
1.85V	216	207	203	202	170	130	105	88.0	81.5	54.5	47.5	26.1
1.80V	344	330	323	278	219	153	128	100	86.5	61.5	50.0	27.5
1.75V	413	396	384	318	244	165	133	104	89.0	62.5	51.5	28.9

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

F.V./Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8 h	10 h	20h
1.90V	387	352	316	306	288	250	206	174	149	109	94.0	50.4
1.85V	418	401	390	380	327	283	215	193	166	119	102	54.9
1.80V	668	641	549	508	429	343	274	224	189	134	110	57.1
1.75V	801	769	563	512	432	356	290	237	198	136	115	58.5

CHARACTERISTICS



Long time discharge capacity for Solar & Wind applications

Capacity	C ₂₄ (Ah)	C ₄₈ (Ah)	C ₇₂ (Ah)	C ₁₀₀ (Ah)	C ₁₂₀ (Ah)	C ₂₄₀ (Ah)
OPzS2-500	565	620	650	675	685	700
Final Voltage	1.85 V					

Solar & Wind applications parameters settings

Over voltage disconnect:	2.47±0.01V/cell @ 20~25°C
Regulation/equalize voltage:	2.40±0.01V/cell @ 20~25°C
Array reconnection voltage:	2.23±0.005V/cell @ 20~25°C
Float voltage setting:	2.25±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:	~4mV/cell/°C