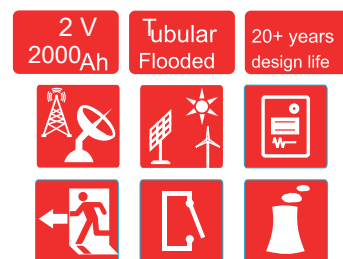


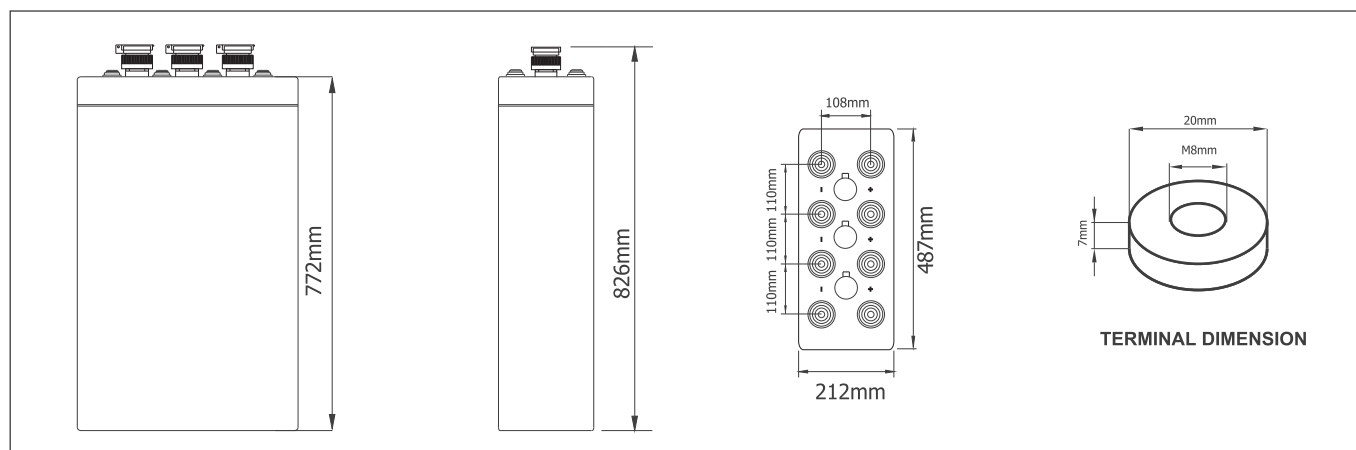
The ReFortis OPzS series is a traditional tubular plate flooded battery which offers 20+ years design life according to the standard IEC60896-11. With a new design and technical improvement, it offers maximum efficiency and reliability for the widest variety of applications. This series is highly suited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



SPECIFICATIONS

Nominal Voltage (V)	2
Designed Floating Life(20°C)	20+ Years
Nominal Capacity (20°C)	2250 Ah @ C ₁₀ (to 1.80Vpc)
Dimensions	L487mm×W212mm×H826mm
Approx. Weight	Without electrolyte: 121Kg (267 lbs) With electrolyte: 174Kg (384 lbs)
Electrolyte	Diluted sulphuric acid of 1.240 g/cm ³ (20°C) Acid weight: 53Kg
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.32mOhm (fully charged @ 20°C)
Max. Charge Current	450 A
Max. Discharge Current (5S)	4000 A
Short Circuit Current	6300 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

DIMENSIONS



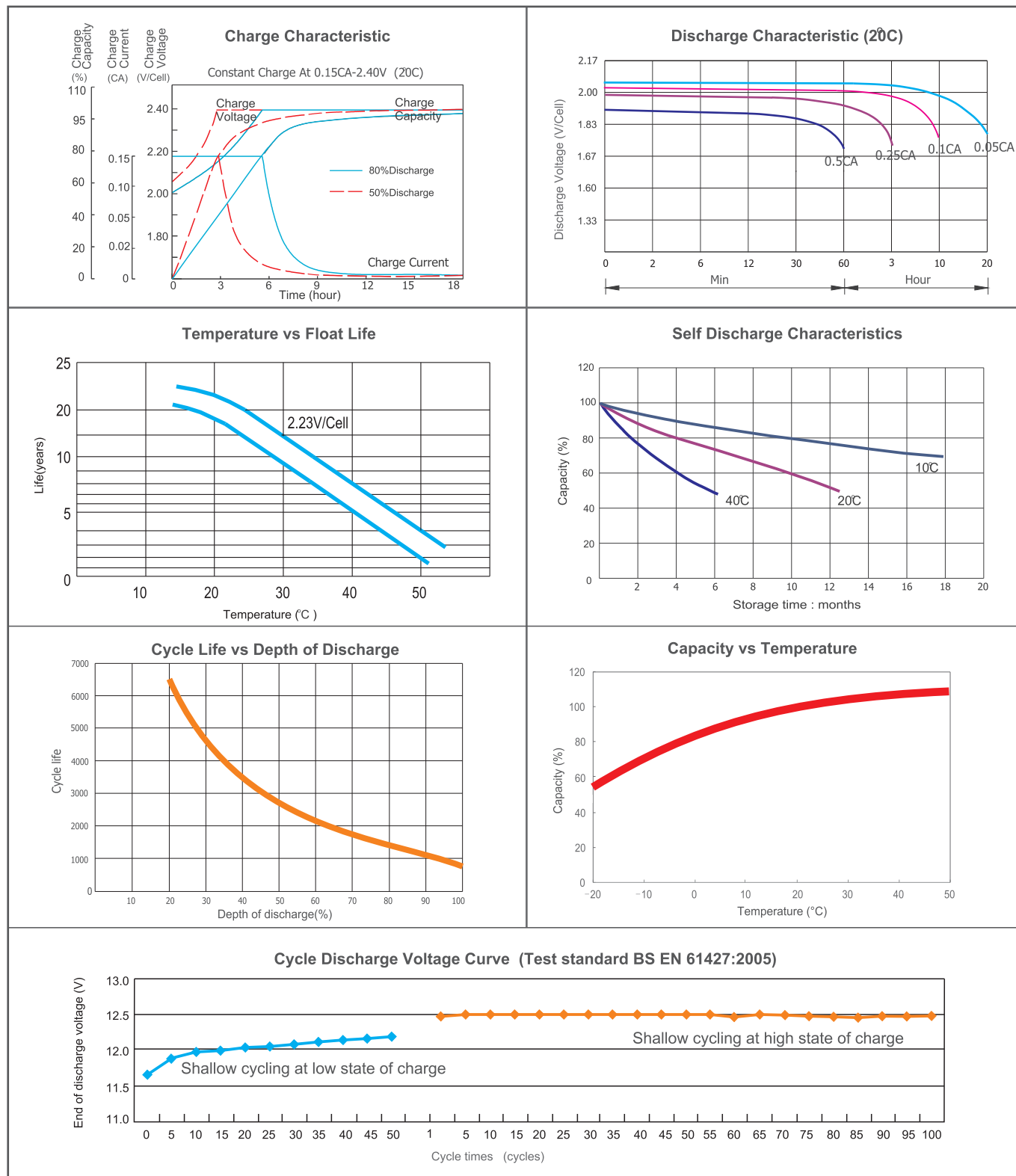
Constant Current Discharge Characteristics: Amps (20°C)

F.V./Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8 h	10 h	20h
1.90V	763	694	631	618	673	527	425	358	313	232	205	113
1.85V	824	790	776	773	765	583	470	396	367	245	214	118
1.80V	1316	1262	1235	1063	983	686	576	450	389	277	225	124
1.75V	1580	1515	1469	1216	1096	743	596	468	401	281	232	130

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	1480	1346	1209	1169	1294	1125	925	781	671	488	423	227
1.85V	1599	1534	1490	1452	1472	1271	968	869	745	533	459	247
1.80V	2553	2450	2100	1943	1928	1541	1231	1006	851	601	495	257
1.75V	3064	2940	2153	1956	1944	1602	1303	1064	889	610	515	263

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)
OPzS2-2250	2543	2790	2925	3038	3083	3150
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