



BATTERIES

VRLA / GELL
OPzS(2V 1000Ah)

High Efficiency The
Exceptional Leak Proof

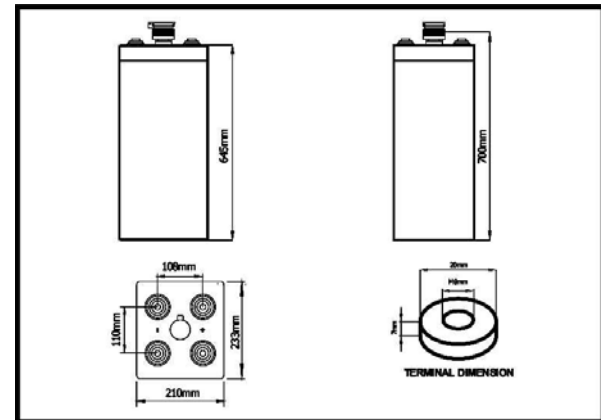
OPzS GEL- VRLA BATTERIES

GEL SERIES 2V VRLA BATTERY

Durable and Powerfull Batteries

The 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 of reliability and security.

DP Electronics has a high and new technology enterprises in the field of valve-controlled sealed lead-acid battery. DP Electronics has passed ISO9001 quality system certification, ISO14001 environmental management system certification, products of the battery has passed the international CE, FCC, UL certification.



SPECIFICATIONS

Nominal Voltage (V)	2
Designed Floating Life o(20C)	20+ Years
Nominal Capacity (20C)	1000Ah @ C10 (to 1.80Vpc)
Demensions	L233mm×W210mmH700mm
Approx. Weight: With Electrolyte	51.5kg (114 lbs)
Without Electrolyte	70.1 kg (155 lbs)
Electrolyte	Diluted sulphuric acid of 1.240 g/cm3 (20°C) Acid weight: 18.6Kg
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.35mOhm (fully charged @ 20°C)
Max. Charge Current	200A
Max. Discharge Current (5S)	2500A
Short Circuit Current	5400A
Self Discharge	Approx. 3% per month @ 20°C
Ambient Temperature	Discharge: -20~50°C Charge: -15~50C Storage: 0~25C
Float Charge Voltage (20~25C)	2.21-2.25V (-3mV / C/ cell)
Equalize Charge Voltage (20~25°C)	2.35-2.40V (-5mV / C/ cell)
Container Material	SAN



OPzS GEL- VRLA BATTERIES

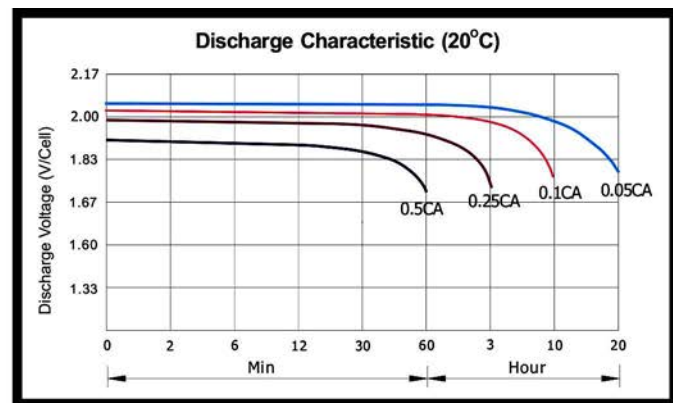
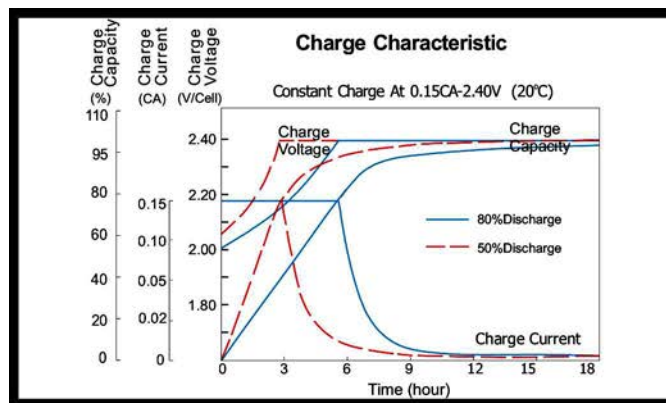
BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (20°C)																
F.V./Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8 h	10 h	20h	48h	72h	100 h	120h
1.90V	399	363	330	323	299	234	189	159	139	103	91.0	50.1	24.7	17.3	12.7	10.8
1.85V	431	413	406	404	340	259	209	176	163	109	95.0	52.3	25.8	18.0	13.5	11.4
1.80V	688	660	646	556	437	305	256	200	173	123	100	55.0	27.1	19.0	14.0	11.8
1.75V	826	792	768	636	487	330	265	208	178	125	103	57.8	27.9	19.5	14.3	12.0

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	48h	72h	100 h	120h
1.90V	774	704	632	611	575	500	411	347	298	217	188	101	51.0	35.6	27.5	23.0
1.85V	836	802	779	759	654	565	430	386	331	237	204	110	55.3	38.7	28.7	23.9
1.80V	1335	1281	1098	1016	857	685	547	447	378	267	220	114	56.8	40.0	29.4	24.5
1.75V	1602	1537	1126	1023	864	712	579	473	395	271	229	117	59.2	41.3	29.6	24.7

CHARACTERISTICS

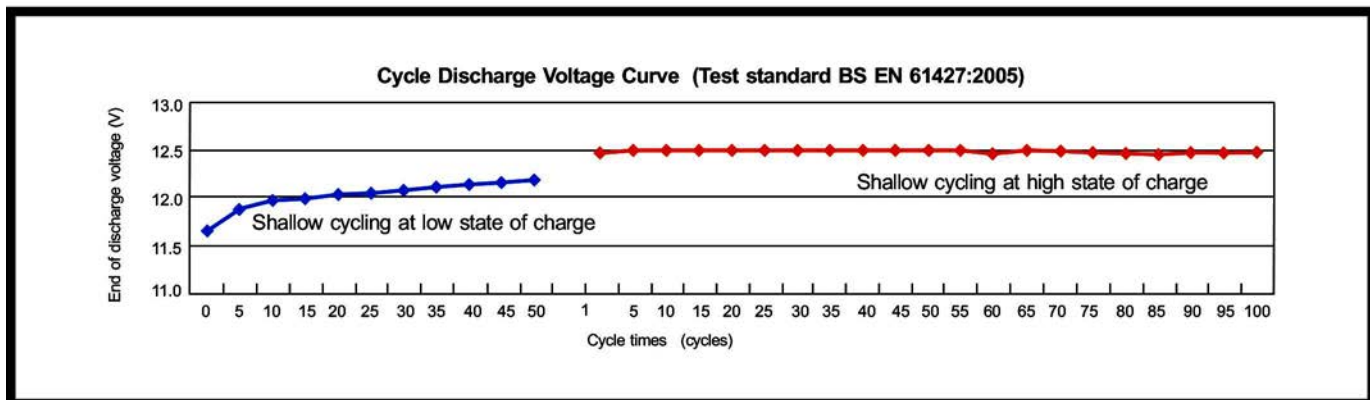
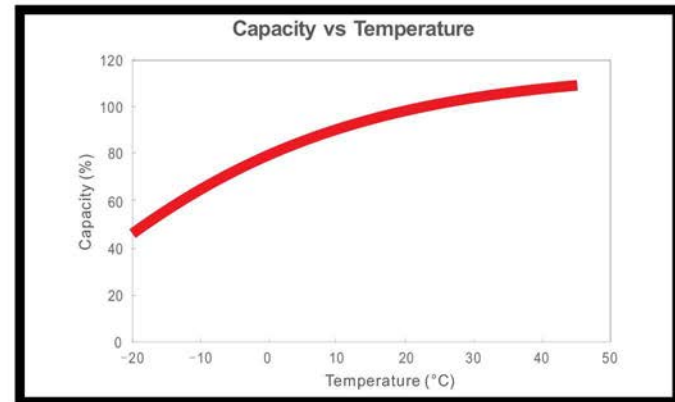
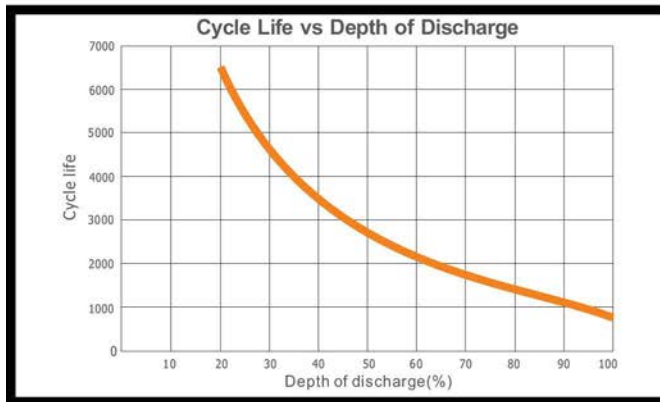
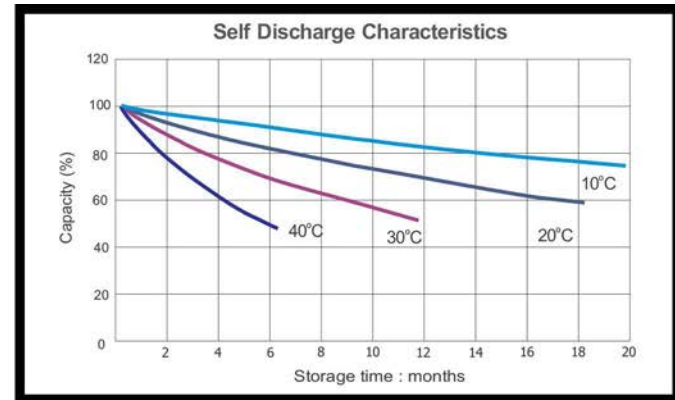
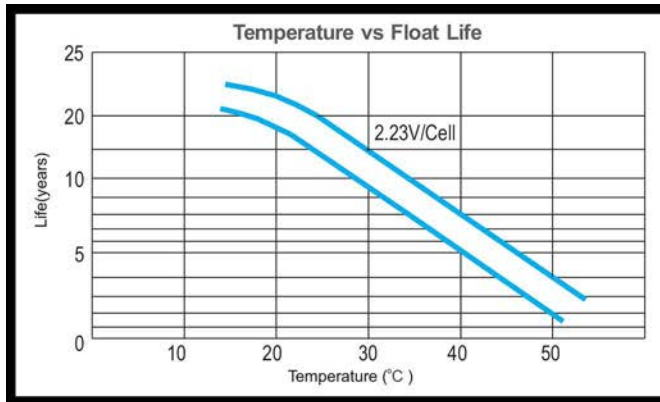
GEL Characteristic Battery Charts



OPzS GEL- VRLA BATTERIES

CHARACTERISTICS

GEL Characteristic Battery Charts





BATTERIES

VRLA / GELL
OPzS(2V 1200Ah)

High Efficiency The
Exceptional Leak Proof

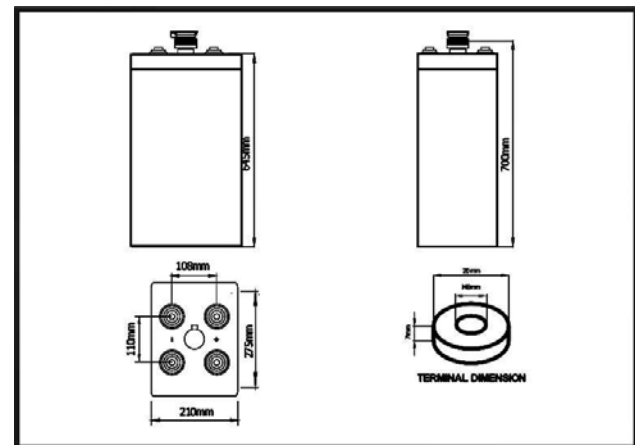
OPzS GEL- VRLA BATTERIES

GEL SERIES 2V VRLA BATTERY

Durable and Powerfull Batteries

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SPECIFICATIONS

Nominal Voltage (V)	2
Designed Floating Life o(20C)	20+ Years
Nominal Capacity (20C)	1200Ah @ C10 (to 1.80Vpc)
Demensions	L275mm×W210mmH700mm
Approx. Weight: With Electrolyte	61.5kg (136 lbs)
Without Electrolyte	83.7 kg (185 lbs)
Electrolyte	Diluted sulphuric acid of 1.240 g/cm3 (20°C) Acid weight: 22.2Kg
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.35mOhm (fully charged @ 20°C)
Max. Charge Current	240A
Max. Discharge Current (5S)	2500A
Short Circuit Current	5600A
Self Discharge	Approx. 3% per month @ 20°C
Ambient Temperature	Discharge: -20~50°C Charge: -15~50C Storage: 0~25C
Float Charge Voltage (20~25C)	2.21-2.25V (-3mV / C/ cell)
Equalize Charge Voltage (20~25°C)	2.35-2.40V (-5mV / C/ cell)
Container Material	SAN



OPzS GEL- VRLA BATTERIES

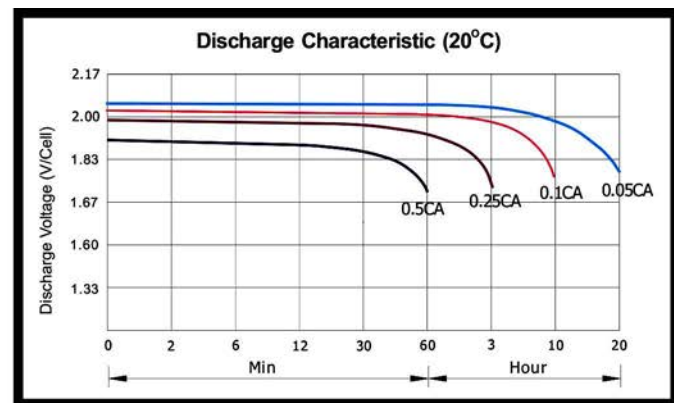
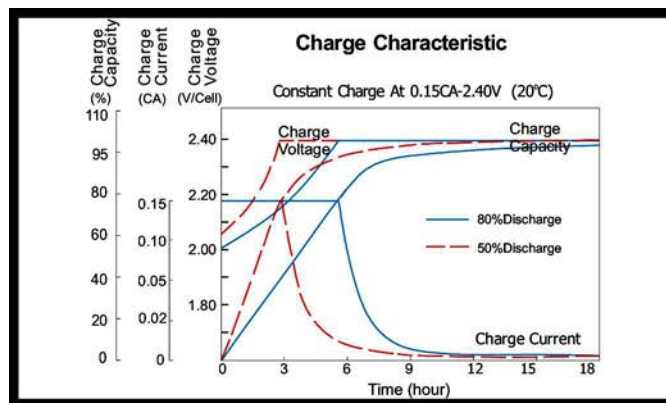
BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (20°C)																
F.V./Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8 h	10 h	20h	48h	72h	100 h	120h
1.90V	678	617	561	549	598	468	378	318	278	206	182	100	49.4	34.5	25.4	21.6
1.85V	733	702	690	687	680	518	418	352	326	218	190	105	51.5	36.0	27.0	22.8
1.80V	1170	1122	1098	945	874	610	512	400	346	246	200	110	54.3	37.9	28.0	23.6
1.75V	1404	1346	1306	1081	974	660	530	416	356	250	206	116	55.9	39.1	28.6	24.0

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	48h	72h	100 h	120h
1.90V	1316	1197	1074	1039	1150	1000	822	694	596	434	376	202	102	71.3	55.0	45.9
1.85V	1421	1363	1324	1290	1308	1130	860	772	662	474	408	220	111	77.4	57.3	47.8
1.80V	2270	2178	1867	1727	1714	1370	1094	894	756	534	440	228	114	80.0	58.8	49.0
1.75V	2723	2613	1914	1739	1728	1424	1158	946	790	542	458	234	118	82.7	59.3	49.5

CHARACTERISTICS

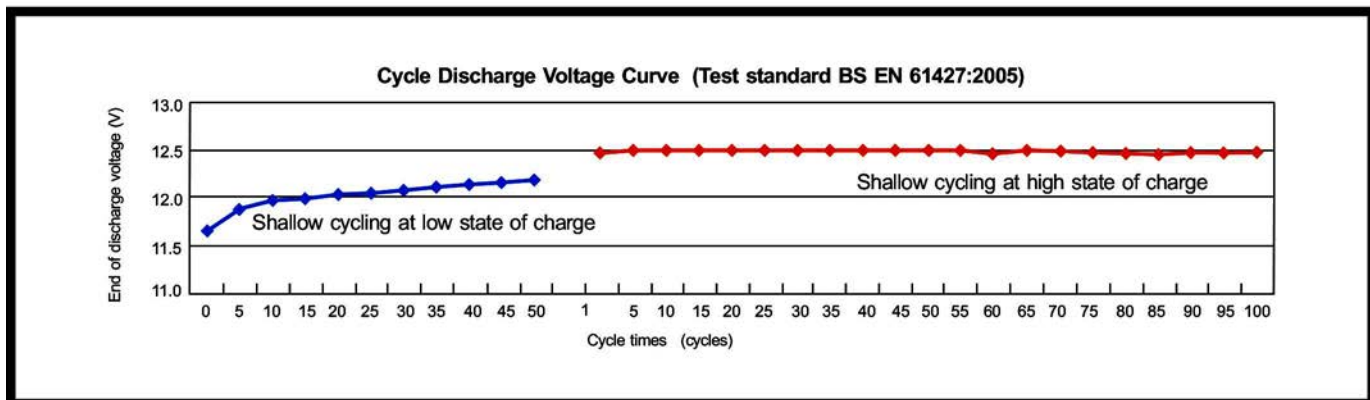
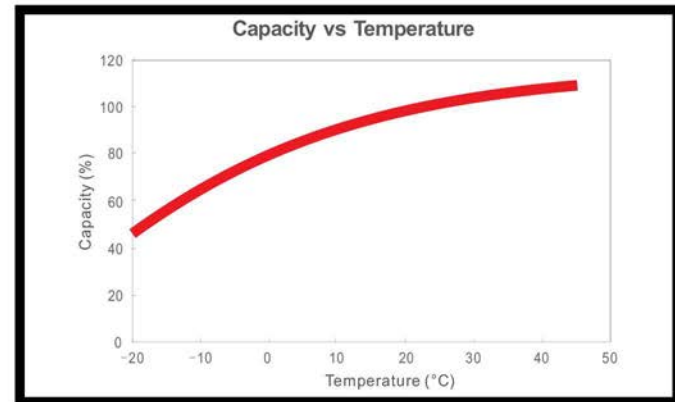
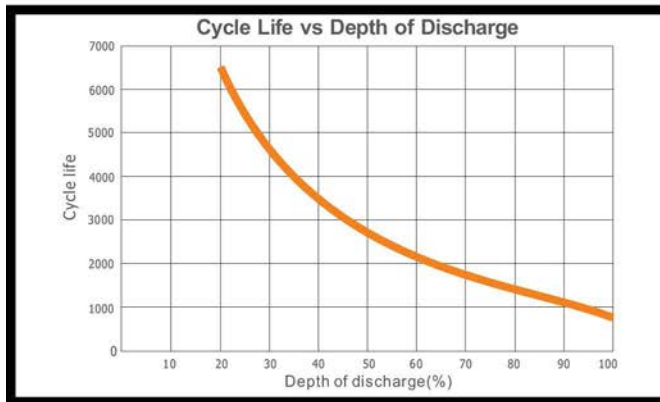
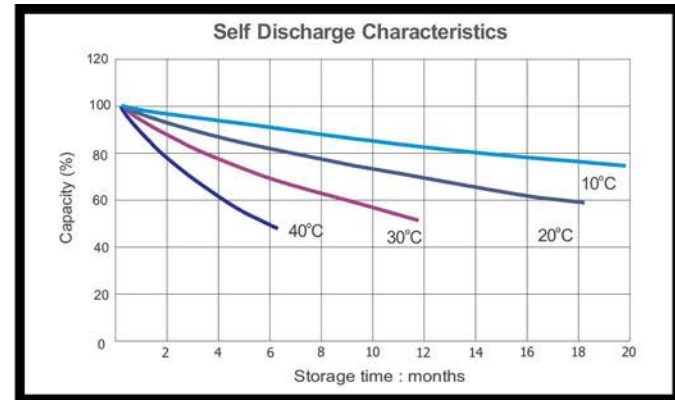
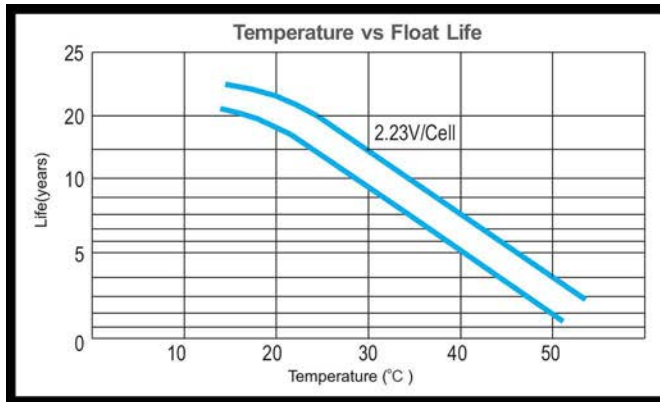
GEL Characteristic Battery Charts



OPzS GEL- VRLA BATTERIES

CHARACTERISTICS

GEL Characteristic Battery Charts





BATTERIES

VRLA / GELL
OPzS(2V 1500Ah)

High Efficiency The
Exceptional Leak Proof

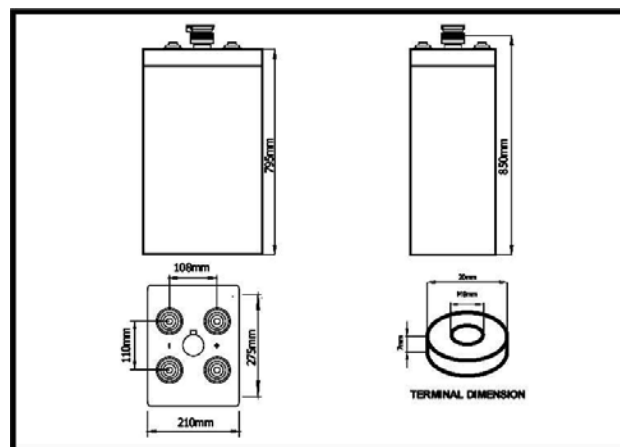
OPzS GEL- VRLA BATTERIES

GEL SERIES 2V VRLA BATTERY

Durable and Powerfull Batteries

The 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 of reliability and security.

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SPECIFICATIONS

Nominal Voltage (V)	2
Designed Floating Life o(20C)	20+ Years
Nominal Capacity (20C)	1500Ah @ C10 (to 1.80Vpc)
Demensions	L275mm×W210mmH850mm
Approx. Weight: With Electrolyte	71kg (157 lbs)
Without Electrolyte	98 kg (216 lbs)
Electrolyte	Diluted sulphuric acid of 1.240 g/cm ³ (20°C) Acid weight: 27Kg
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.32mOhm (fully charged @ 20°C)
Max. Charge Current	300A
Max. Discharge Current (5S)	300A
Short Circuit Current	6200A
Self Discharge	Approx. 3% per month @ 20°C
Ambient Temperature	Discharge: -20~50°C Charge: -15~50C Storage: 0~25C
Float Charge Voltage (20~25C)	2.21-2.25V (-3mV / C/ cell)
Equalize Charge Voltage (20~25°C)	2.35-2.40V (-5mV / C/ cell)
Container Material	SAN



OPzS GEL- VRLA BATTERIES

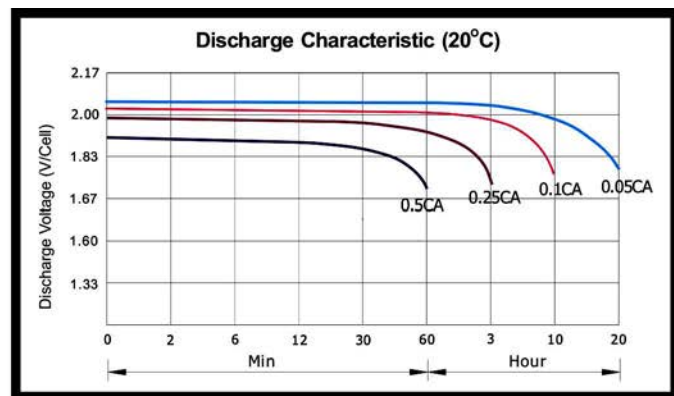
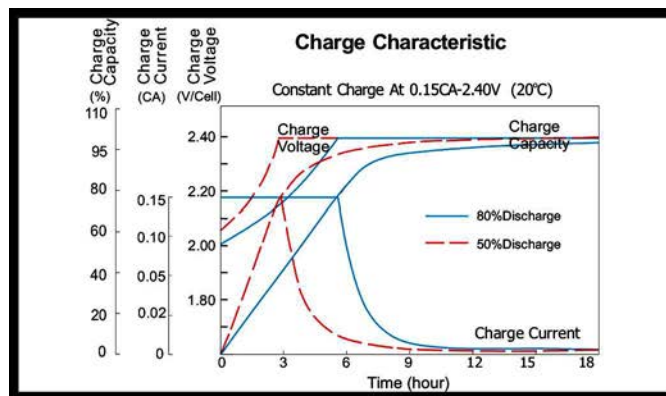
BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (20°C)																
F.V./Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8 h	10 h	20h	48h	72h	100 h	120h
1.90V	678	617	561	549	598	468	378	318	278	206	182	100	49.4	34.5	25.4	21.6
1.85V	733	702	690	687	680	518	418	352	326	218	190	105	51.5	36.0	27.0	22.8
1.80V	1170	1122	1098	945	874	610	512	400	346	246	200	110	54.3	37.9	28.0	23.6
1.75V	1404	1346	1306	1081	974	660	530	416	356	250	206	116	55.9	39.1	28.6	24.0

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	48h	72h	100 h	120h
1.90V	1316	1197	1074	1039	1150	1000	822	694	596	434	376	202	102	71.3	55.0	45.9
1.85V	1421	1363	1324	1290	1308	1130	860	772	662	474	408	220	111	77.4	57.3	47.8
1.80V	2270	2178	1867	1727	1714	1370	1094	894	756	534	440	228	114	80.0	58.8	49.0
1.75V	2723	2613	1914	1739	1728	1424	1158	946	790	542	458	234	118	82.7	59.3	49.5

CHARACTERISTICS

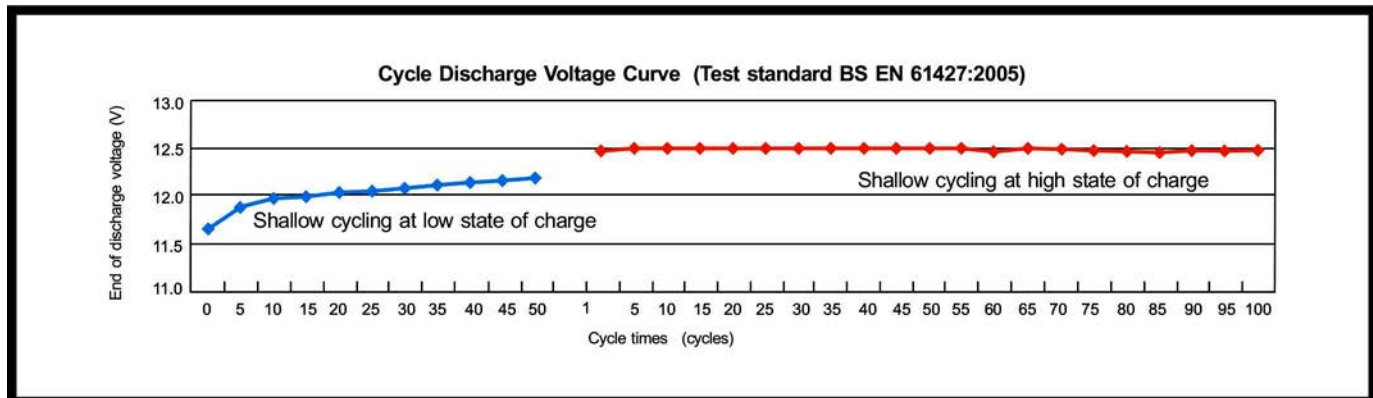
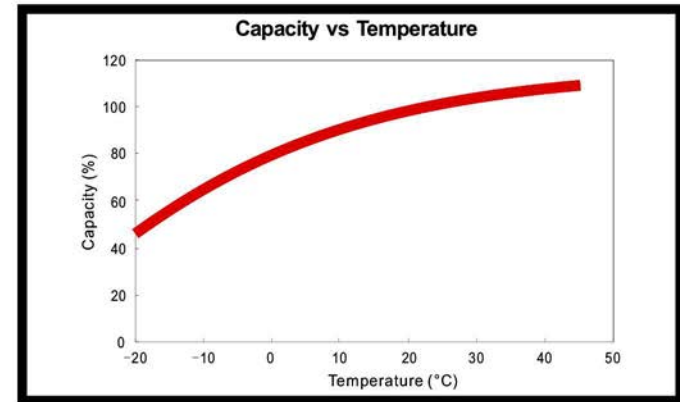
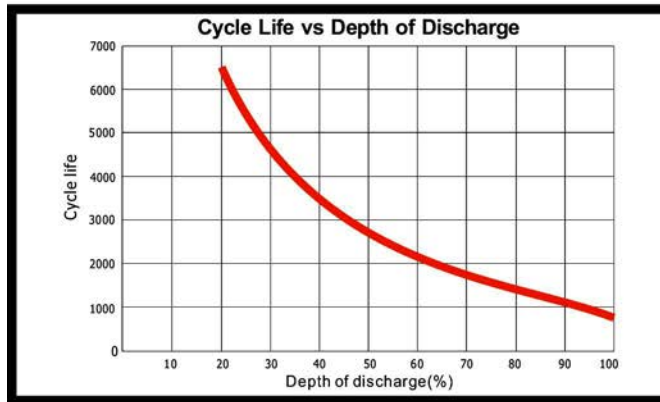
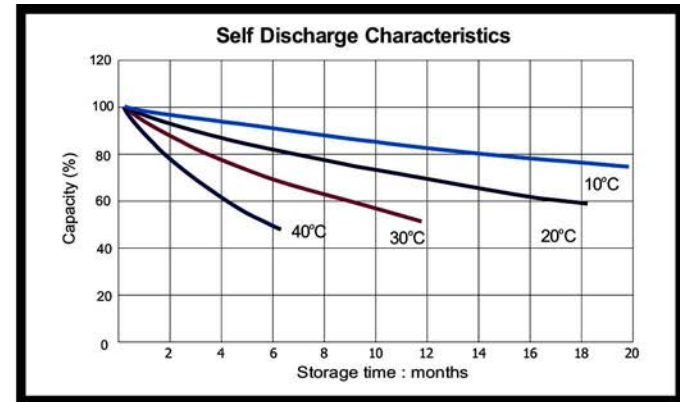
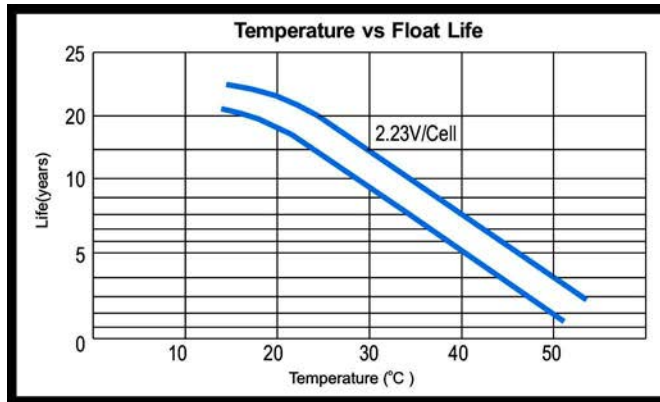
GEL 12V Characteristic Battery Charts



OPzS GEL- VRLA BATTERIES

CHARACTERISTICS

GEL 12V Characteristic Battery Charts





BATTERIES

VRLA / GELL
OPzS(2V 2000Ah)

High Efficiency The
Exceptional Leak Proof

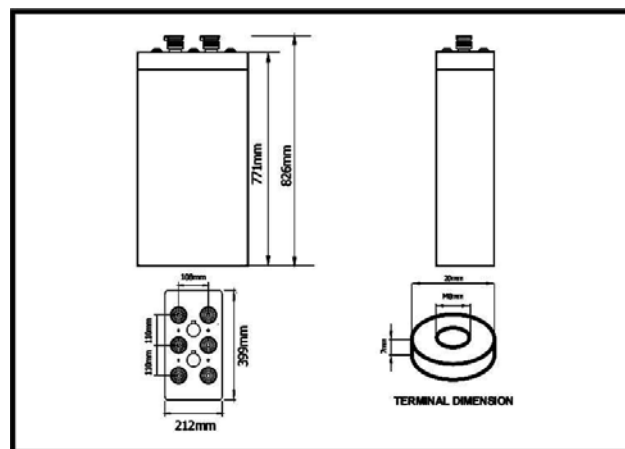
OPzS GEL- VRLA BATTERIES

GEL SERIES 2V VRLA BATTERY

Durable and Powerfull Batteries

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SPECIFICATIONS

Nominal Voltage (V)	2
Designed Floating Life o(20C)	20+ Years
Nominal Capacity (20C)	2000Ah @ C10 (to 1.80Vpc)
Demensions	L399mm×W210mmH826mm
Approx. Weight: With Electrolyte	98kg (216 lbs)
Without Electrolyte	141 kg (311lbs)
Electrolyte	Diluted sulphuric acid of 1.240 g/cm3 (20°C) Acid weight: 43Kg
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.3mOhm (fully charged @ 20°C)
Max. Charge Current	400A
Max. Discharge Current (5S)	300A
Short Circuit Current	6700A
Self Discharge	Approx. 3% per month @ 20°C
Ambient Temperature	Discharge: -20~50°C Charge: -15~50C Storage: 0~25C
Float Charge Voltage (20~25C)	2.21-2.25V (-3mV / C/ cell)
Equalize Charge Voltage (20~25°C)	2.35-2.40V (-5mV / C/ cell)
Container Material	SAN



OPzS GEL- VRLA BATTERIES

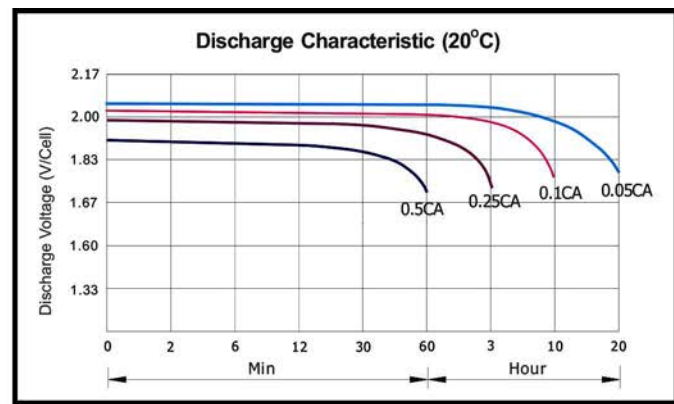
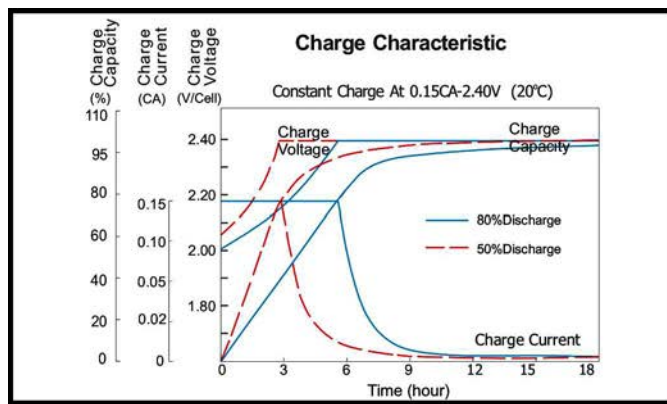
BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (20°C)																
F.V./Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8 h	10 h	20h	48h	72h	100 h	120h
1.90V	678	617	561	549	598	468	378	318	278	206	182	100	49.4	34.5	25.4	21.6
1.85V	733	702	690	687	680	518	418	352	326	218	190	105	51.5	36.0	27.0	22.8
1.80V	1170	1122	1098	945	874	610	512	400	346	246	200	110	54.3	37.9	28.0	23.6
1.75V	1404	1346	1306	1081	974	660	530	416	356	250	206	116	55.9	39.1	28.6	24.0

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	48h	72h	100 h	120h
1.90V	1316	1197	1074	1039	1150	1000	822	694	596	434	376	202	102	71.3	55.0	45.9
1.85V	1421	1363	1324	1290	1308	1130	860	772	662	474	408	220	111	77.4	57.3	47.8
1.80V	2270	2178	1867	1727	1714	1370	1094	894	756	534	440	228	114	80.0	58.8	49.0
1.75V	2723	2613	1914	1739	1728	1424	1158	946	790	542	458	234	118	82.7	59.3	49.5

CHARACTERISTICS

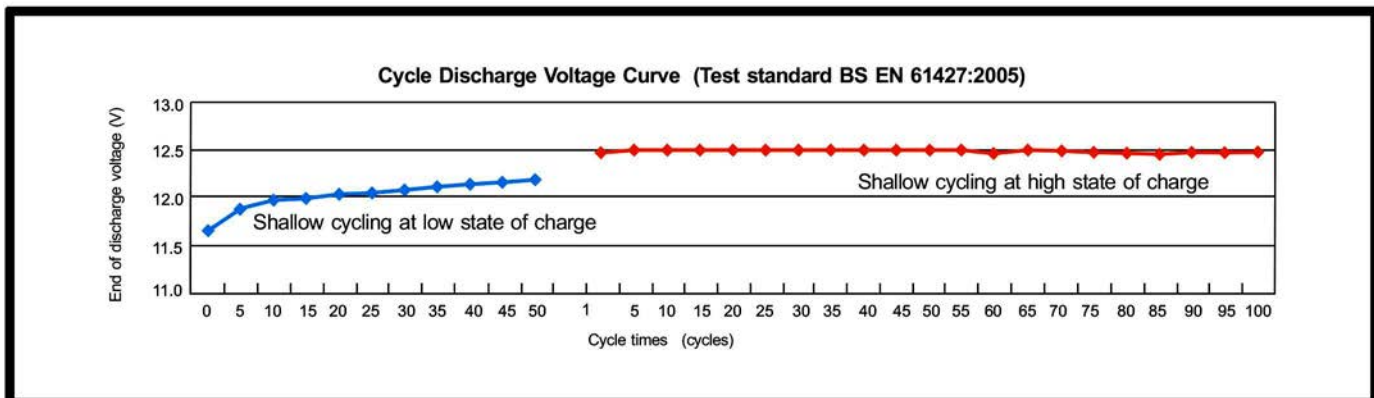
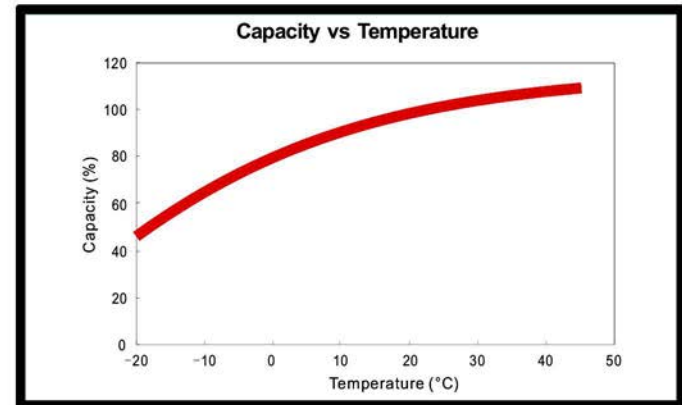
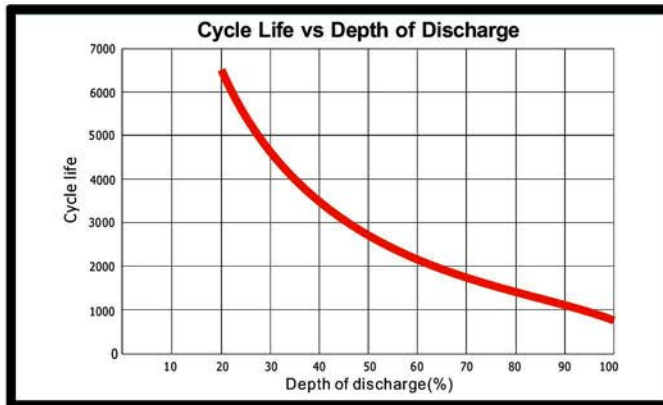
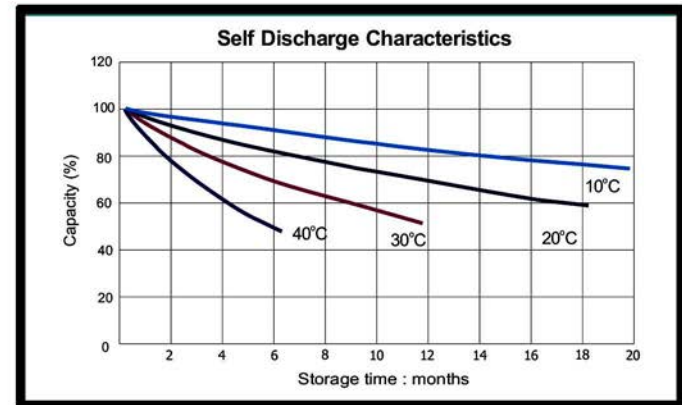
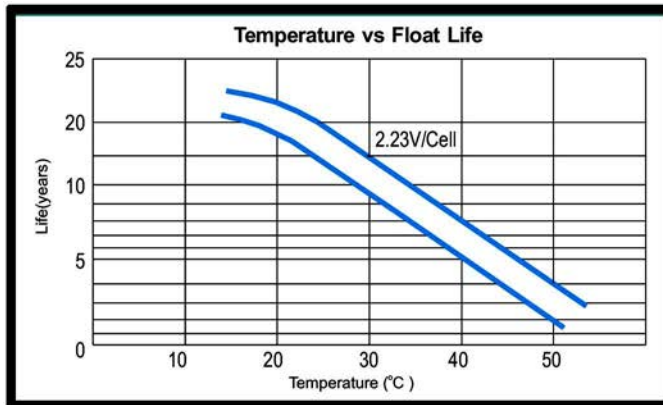
GEL 12V Characteristic Battery Charts



OPzS GEL- VRLA BATTERIES

CHARACTERISTICS

GEL 12V Characteristic Battery Charts





BATTERIES

VRLA / GELL
OPzS(2V 2500Ah)

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Exceptional Leak Proof

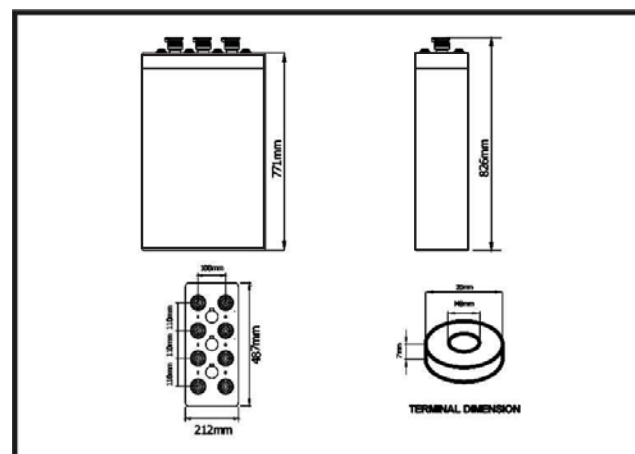
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SPECIFICATIONS

Nominal Voltage (V)	2
Designed Floating Life o(20C)	20+ Years
Nominal Capacity (20C)	2500Ah @ C10 (to 1.80Vpc)
Demensions	L487mm×W212mmH826mm
Approx. Weight: With Electrolyte	131kg (289 lbs)
Without Electrolyte	183 kg (404lbs)
Electrolyte	Diluted sulphuric acid of 1.240 g/cm3 (20°C) Acid weight: 52Kg
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.25mOhm (fully charged @ 20°C)
Max. Charge Current	500A
Max. Discharge Current (5S)	4000A
Short Circuit Current	8000A
Self Discharge	Approx. 3% per month @ 20°C
Ambient Temperature	Discharge: -20~50°C Charge: -15~50C Storage: 0~25C
Float Charge Voltage (20~25C)	2.21-2.25V (-3mV / C/ cell)
Equalize Charge Voltage (20~25°C)	2.35-2.40V (-5mV / C/ cell)
Container Material	SAN



OPzS GEL- VRLA BATTERIES

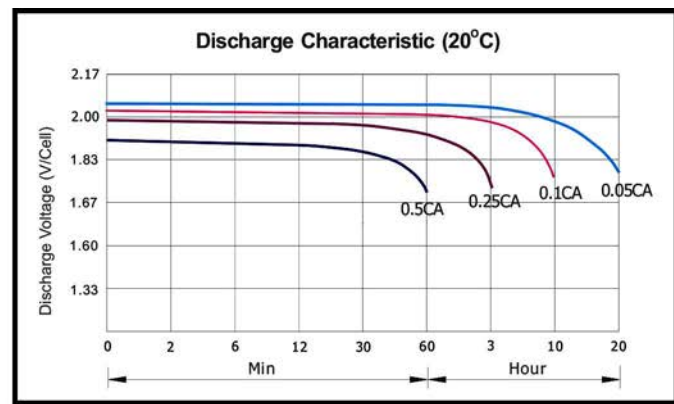
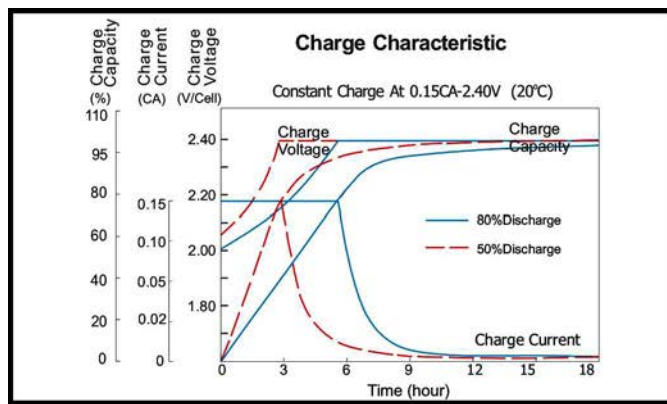
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1.90V	848	771	701	686	748	585	473	398	348	258	228	125	61.7	43.1	31.8	27.0
1.85V	916	878	863	859	850	648	523	440	408	273	238	131	64.4	45.0	33.8	28.5
1.80V	1462	1403	1373	1182	1093	763	640	500	433	308	250	138	67.8	47.4	35.0	29.5
1.75V	1755	1683	1632	1352	1218	825	663	520	445	313	258	144	69.8	48.8	35.8	30.0

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	48h	72h	100 h	120h
1.90V	1645	1496	1343	1298	1438	1250	1028	868	745	543	470	252	127	89.1	68.8	57.4
1.85V	1777	1704	1655	1613	1635	1413	1075	965	828	593	510	275	138	96.7	71.7	59.8
1.80V	2837	2722	2333	2159	2143	1713	1368	1118	945	668	550	285	142	100	73.5	61.3
1.75V	3404	3266	2393	2174	2160	1780	1448	1183	988	678	573	292	148	103	74.1	61.9

CHARACTERISTICS

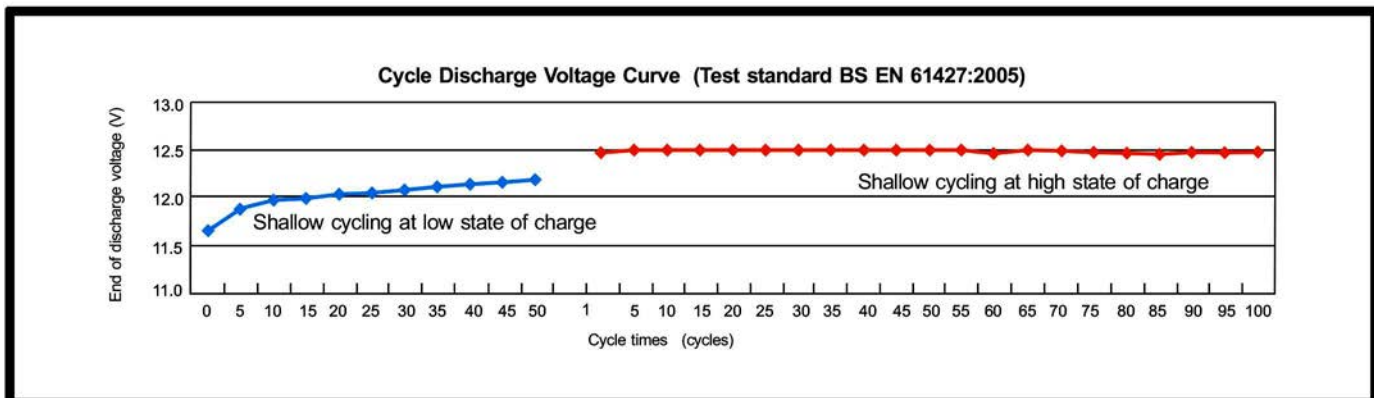
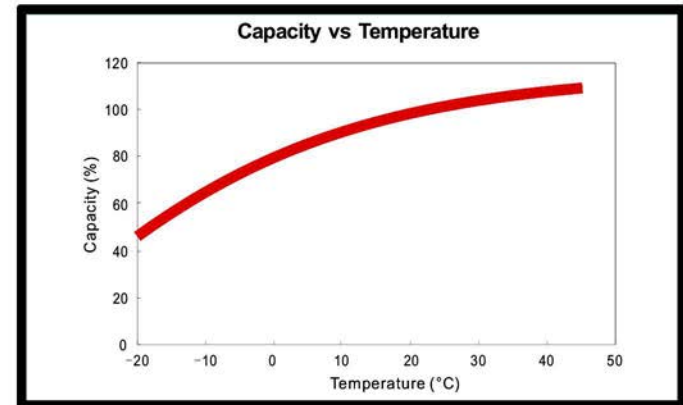
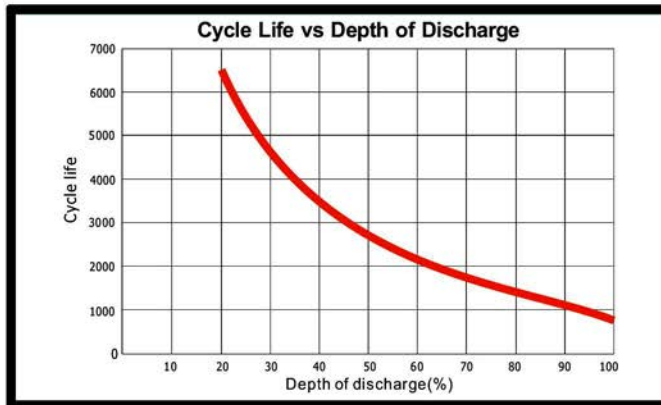
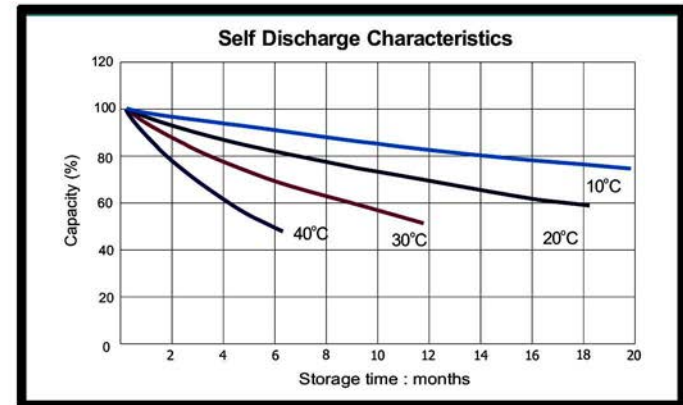
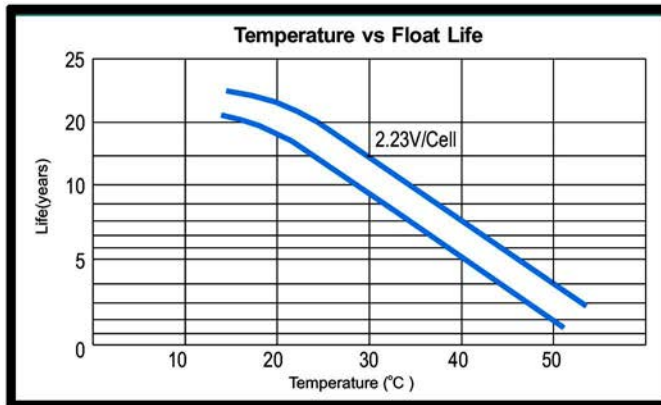
GEL 12V Characteristic Battery Charts



OPzS GEL- VRLA BATTERIES

CHARACTERISTICS

GEL 12V Characteristic Battery Charts





BATTERIES

VRLA / GELL
OPzS(2V 3000Ah)

High Efficiency The
Exceptional Leak Proof

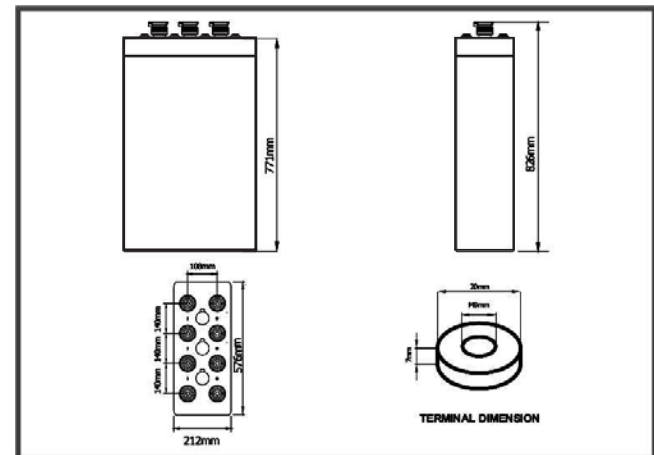
OPzS GEL- VRLA BATTERIES

GEL SERIES 2V VRLA BATTERY

Durable and Powerfull Batteries

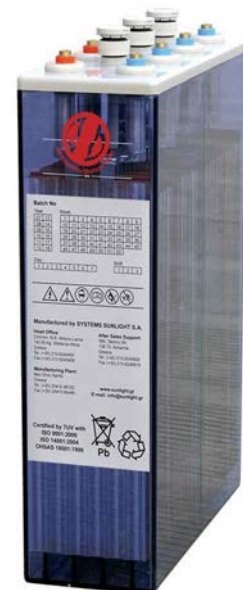
The OPzS series is a traditional tubular plate flooded battery which offers 20+ years design life according to the standard IEC60896-11. With a new design and technical improvement, it offers maximum efficiency and reliability for the widest variety of applications. This series is highly suited for all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

DP Electronics has a high and new technology enterprises in the field of valve-controlled sealed lead-acid battery. DP Electronics has passed ISO9001 quality system certification, ISO14001 environmental management system certification, products of the battery has passed the international CE, FCC, UL certification.



SPECIFICATIONS

Nominal Voltage (V)	2
Designed Floating Life o(20C)	20+ Years
Nominal Capacity (20C)	2500Ah @ C10 (to 1.80Vpc)
Demensions	L576mm×W212mmH826mm
Approx. Weight: With Electrolyte	155kg (342 lbs)
Without Electrolyte	218 kg (481lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.2mOhm (fully charged @ 20°C)
Max. Charge Current	500A
Max. Discharge Current (5S)	4000A
Short Circuit Current	10000A
Self Discharge	Approx. 3% per month @ 20°C
Ambient Temperature	Discharge: -20~50°C Charge: -15~50C Storage: -0~25C
Float Charge Voltage (20~25C)	2.21-2.25V (-3mV / C/ cell)
Equalize Charge Voltage (20~25°C)	2.35-2.40V (-5mV / C/ cell)
Container Material	SAN



OPzS GEL- VRLA BATTERIES

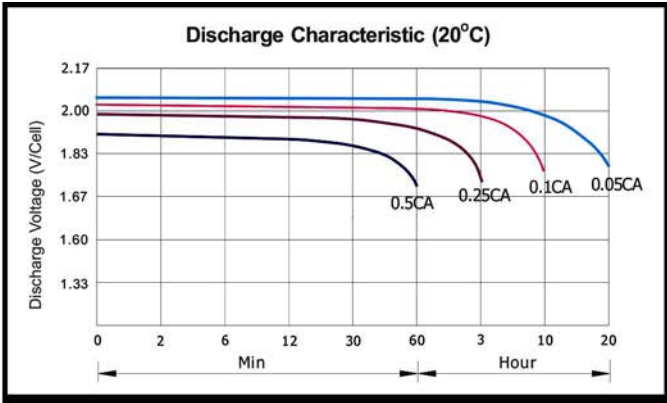
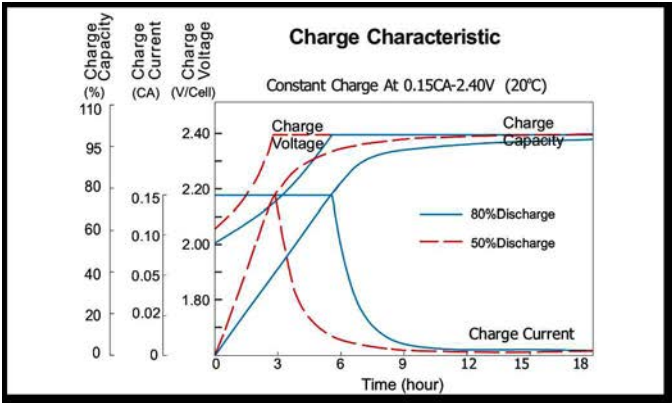
BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (20°C)																
F.V./Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8 h	10 h	20h	48h	72h	100 h	120h
1.90V	958	871	792	775	897	702	567	477	417	309	273	150	74.1	51.8	38.1	32.4
1.85V	1034	991	974	970	1020	777	627	528	489	327	285	157	77.3	54.0	40.5	34.2
1.80V	1651	1584	1550	1334	1311	915	768	600	519	369	300	165	81.4	56.9	42.0	35.4
1.75V	1982	1901	1843	1526	1461	990	795	624	534	375	309	173	83.8	58.6	42.9	36.0

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	48h	72h	100 h	120h
1.90V	1974	1795	1612	1558	1725	1500	1233	1041	894	651	564	302	153	107	82.6	68.9
1.85V	2132	2045	1986	1935	1962	1695	1290	1158	993	711	612	329	166	116	86.0	71.8
1.80V	3404	3267	2800	2591	2571	2055	1641	1341	1134	801	660	342	171	120	88.1	73.5
1.75V	4085	3919	2871	2609	2592	2136	1737	1419	1185	813	687	351	177	124	88.9	74.2

CHARACTERISTICS

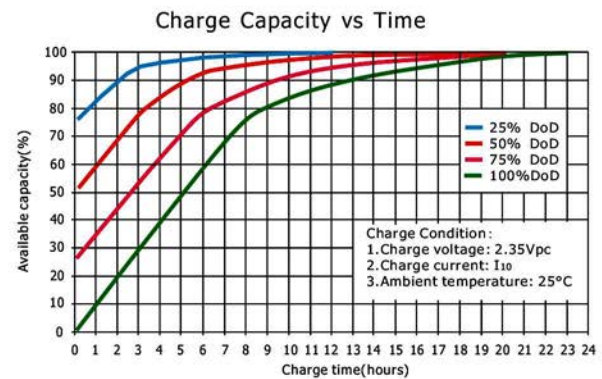
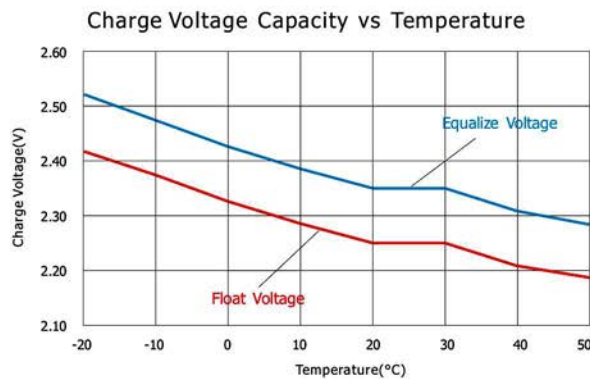
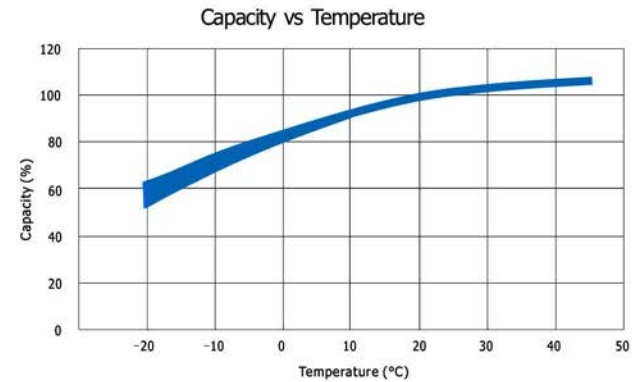
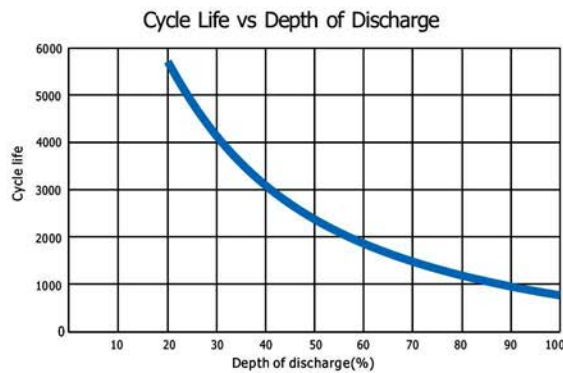
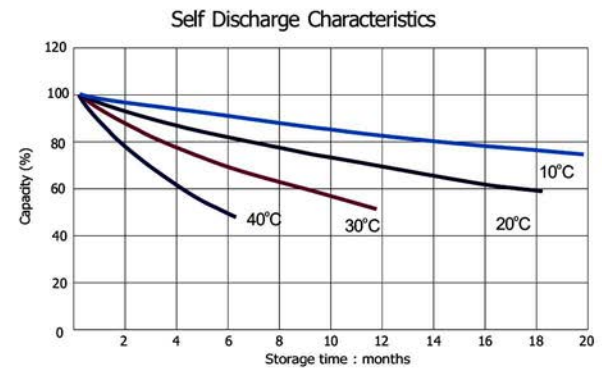
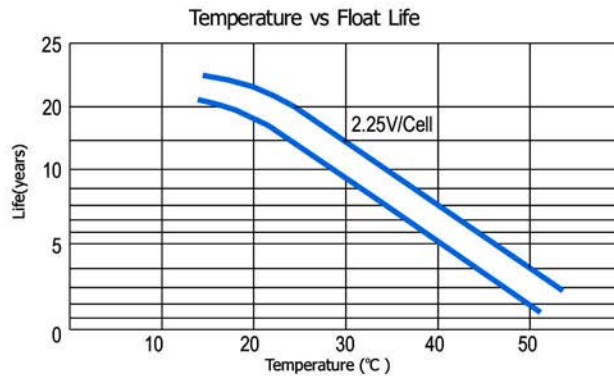
GEL 12V Characteristic Battery Charts



OPzS GEL- VRLA BATTERIES

CHARACTERISTICS

GEL 12V Characteristic Battery Charts





BATTERIES

VRLA / GELL
OPzS(2V 800Ah)

High Efficiency The
Exceptional Leak Proof

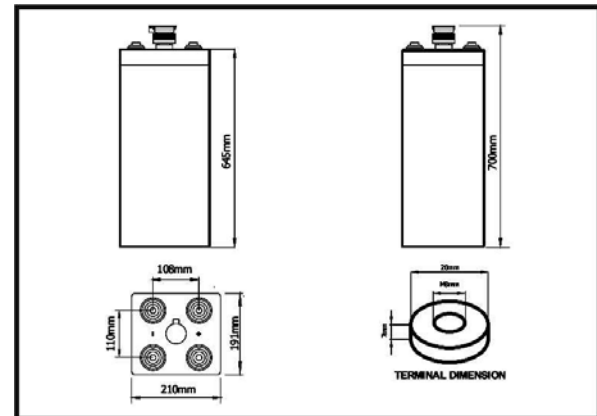
OPzS GEL- VRLA BATTERIES

GEL SERIES 2V VRLA BATTERY

Durable and Powerfull Batteries

The 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 of reliability and security.

DP Electronics has a high and new technology enterprises in the field of valve-controlled sealed lead-acid battery. DP Electronics has passed ISO9001 quality system certification, ISO14001 environmental management system certification, products of the battery has passed the international CE, FCC, UL certification.



SPECIFICATIONS

Nominal Voltage (V)	2
Designed Floating Life o(20C)	20+ Years
Nominal Capacity (20C)	800Ah @ C10 (to 1.80Vpc)
Demensions	L191mm×W210mmH700mm
Approx. Weight: With Electrolyte	42.0kg (92.6lbs)
Without Electrolyte	58.0kg (128 lbs)
Electrolyte	Diluted sulphuric acid of 1.240 g/cm3 (20°C) Acid weight: 16Kg
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.41mOhm (fully charged @ 20°C)
Max. Charge Current	160A
Max. Discharge Current (5S)	2000A
Short Circuit Current	4700A
Self Discharge	Approx. 3% per month @ 20°C
Ambient Temperature	Discharge: -20~50°C Charge: -15~50C Storage: 0~25C
Float Charge Voltage (20~25C)	2.21-2.25V (-3mV / C/ cell)
Equalize Charge Voltage (20~25°C)	2.35-2.40V (-5mV / C/ cell)
Container Material	SAN



OPzS GEL- VRLA BATTERIES

BATTERY DISCHARGE TABLE

Constant Current Discharge Characteristics: Amps (20°C)

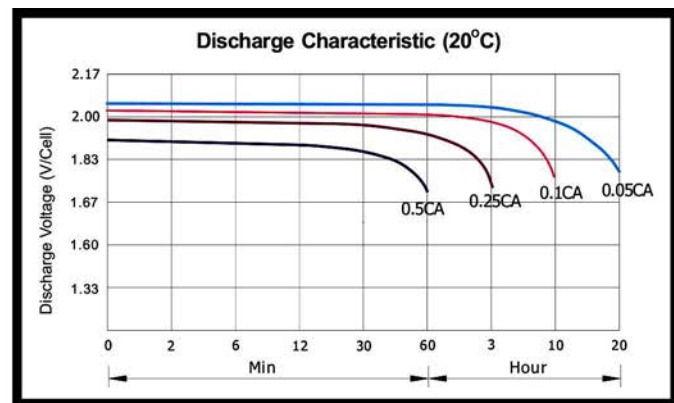
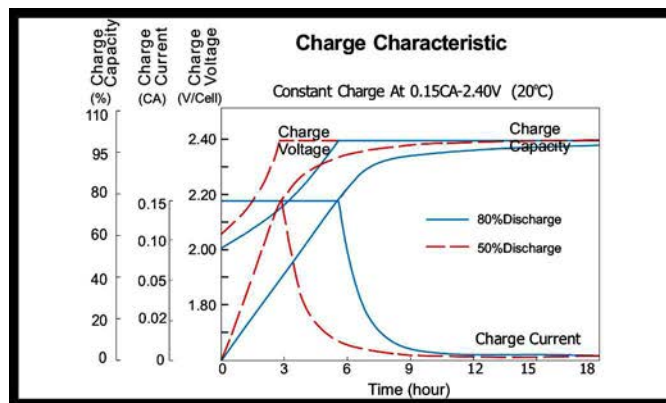
F.V./Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8 h	10 h	20h	48h	72h	100 h	120h
1.90V	319	290	264	258	239	187	151	127	111	82.4	72.8	40.0	19.7	13.8	10.2	8.64
1.85V	345	330	325	323	272	207	167	141	130	87.2	76.0	41.8	20.6	14.4	10.8	9.12
1.80V	550	528	517	445	350	244	205	160	138	98.4	80.0	44.0	21.7	15.2	11.2	9.44
1.75V	661	634	614	509	390	264	212	166	142	100	82.4	46.2	22.4	15.6	11.4	9.59

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	48h	72h	100 h	120h
1.90V	619	563	506	489	460	400	329	278	238	174	150	80.6	40.8	28.5	22.0	18.4
1.85V	669	642	623	607	523	452	344	309	265	190	163	87.8	44.3	30.9	22.9	19.1
1.80V	1068	1025	878	813	686	548	438	358	302	214	176	91.3	45.5	32.0	23.5	19.6
1.75V	1282	1230	901	818	691	570	463	378	316	217	183	93.5	47.3	33.1	23.7	19.8

CHARACTERISTICS

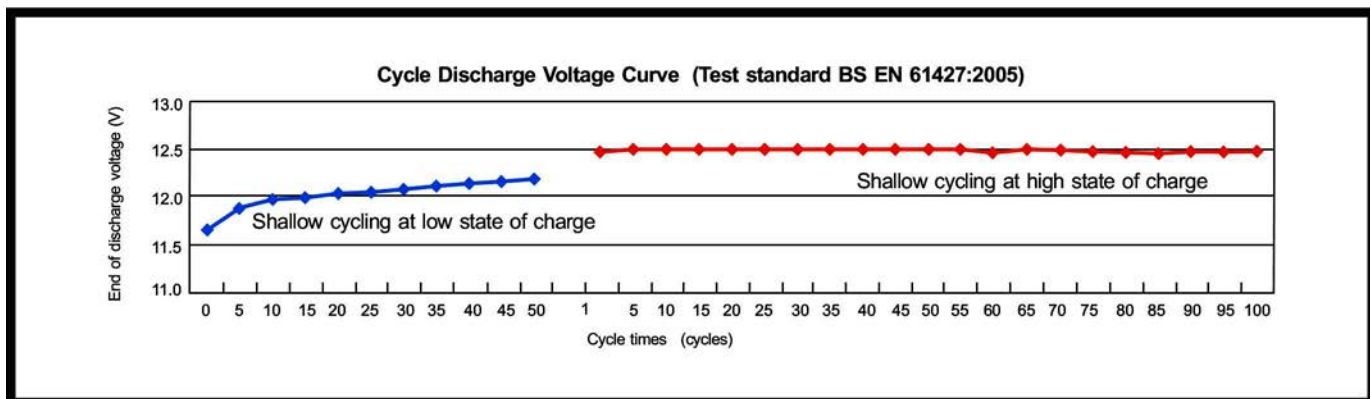
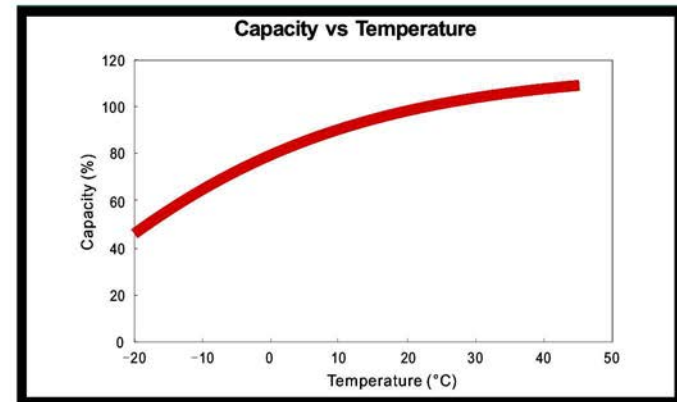
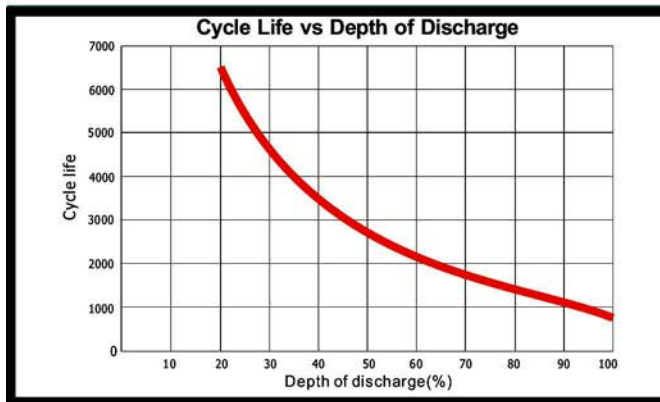
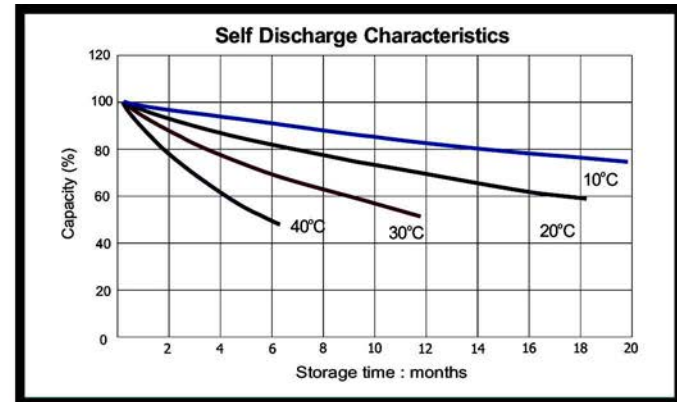
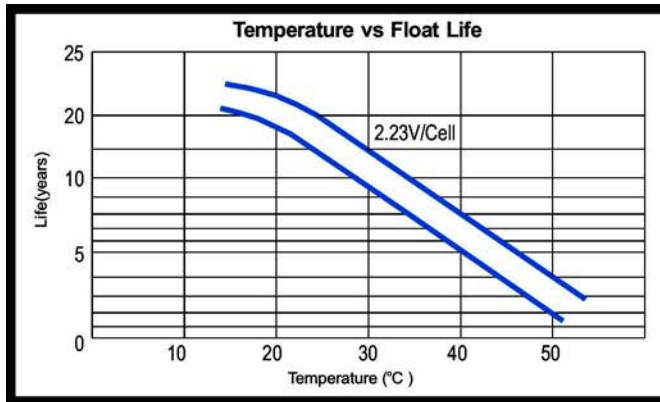
GEL Characteristic Battery Charts



OPzS GEL- VRLA BATTERIES

CHARACTERISTICS

GEL Characteristic Battery Charts



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