



BATTERIES

VRLA / GELL
OPzV(2V 1000Ah)

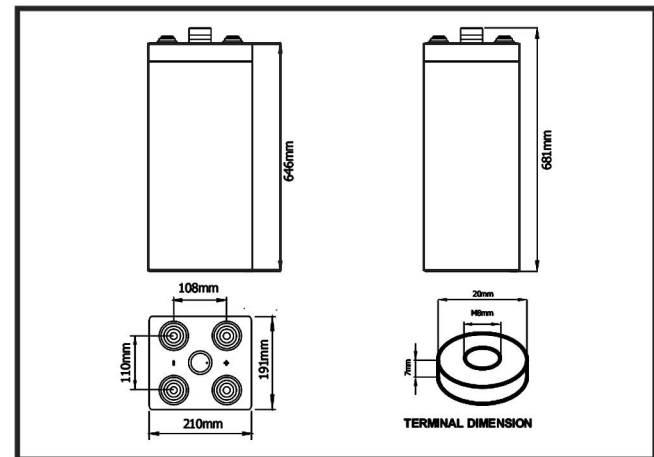
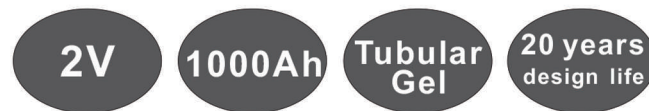
High Efficiency The
Exceptional Leak Proof

OPzV GEL- VRLA BATTERIES

GEL SERIES 2V VRLA BATTERY

Durable and Powerfull Batteries

The OPzV series adopts an Immobilized Gel and Tubular Positive Plate technology. It offers high reliability and stable performance. By using diecasted 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)	2
Designed Floating Life o(20C)	20+ Years
Nominal Capacity (20C)	1000 Ah @ C10 (to 1.80Vpc)
Demensions	L233mm×W210mm×H681mm
Approx. Weight	73kg (161.2lbs)
Terminal Type	Female Copper Insert M8 (torque:10~12N.m)
Internal Resistance	Approx. 0.34mOhm (fully charged @ 20°C)
Max. Charge Current	200A
Max. Discharge Current (5S)	4000A
Self Discharge	Approx. 2% per month @ 20°C
Ambient Temperature	Discharge: -40~70°C Charge: -15~50C Storage: -15~60C
Float Charge Voltage (20~25C)	2.25-2.29V (-3mV / oC/ cell)
Equalize Charge Voltage (20~25°C)	2.35-2.40V (-5mV / oC/ cell)
Container Material	ABS(UL94-V0 optional)



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BATTERY DISCHARGE TABLE

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.90V	358	348	325	273	234	196	145	104	86.6
1.87V	487	455	403	319	261	216	157	110	91.6
1.85V	561	514	442	348	288	232	168	115	95.2
1.83V	653	572	478	384	308	245	172	119	97.0
1.80V	731	663	535	423	325	257	175	121	100
1.75V	775	728	627	460	339	265	178	123	102
1.70V	843	800	689	486	352	270	181	124	104
1.65V	985	900	751	517	362	274	185	126	106
1.60V	1072	988	796	533	369	279	189	129	108

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

F.V/Time	10min	15min	30min	1h	2h	3h	5h	8h	10h
1.90V	691	673	633	536	462	390	291	209	173
1.87V	923	865	772	615	511	425	313	220	182
1.85V	1047	963	835	664	556	453	330	229	187
1.83V	1206	1061	893	724	588	473	333	232	189
1.80V	1330	1212	986	788	613	491	337	234	191
1.75V	1388	1310	1141	846	631	497	339	235	194
1.70V	1489	1419	1236	882	648	501	341	237	197
1.65V	1708	1573	1326	925	658	504	344	238	198
1.60V	1823	1691	1380	938	662	505	347	240	200

PARAMETERS FOR SOLAR & WIND APPLICATIONS

Long time discharge capacity for Solar & Wind applications

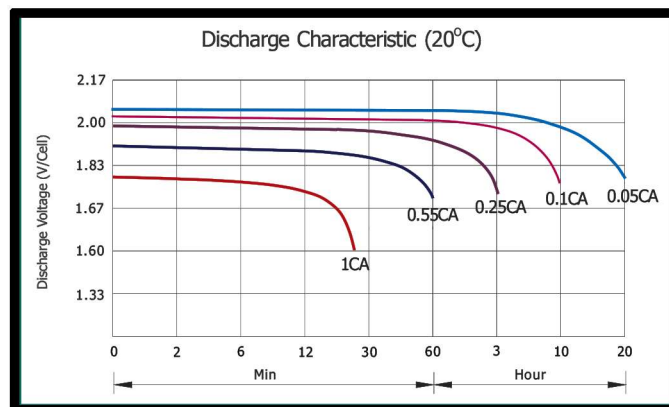
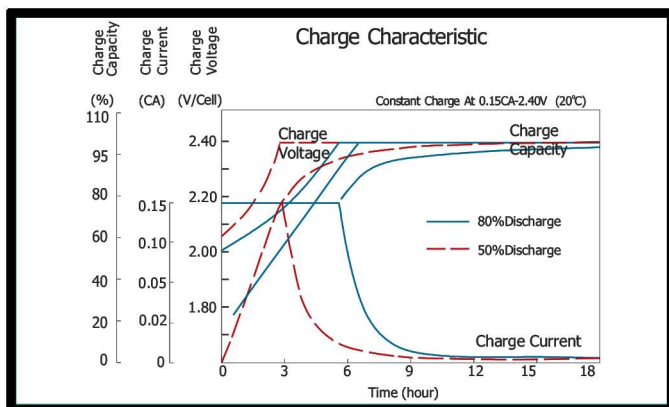
Capacity	C ₂₀ (Ah)	C ₂₄ (Ah)	C ₄₈ (Ah)	C ₇₂ (Ah)	C ₁₀₀ (Ah)	C ₁₂₀ (Ah)	C ₂₄₀ (Ah)
OPzV2-1000	1080	1100	1150	1200	1250	1270	1300
Final Voltage	1.80V	1.85V					

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

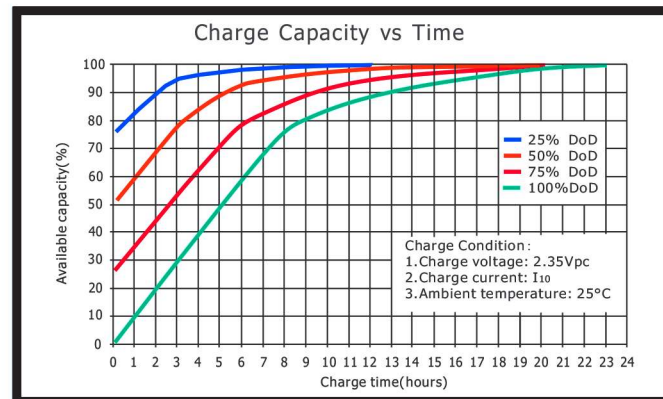
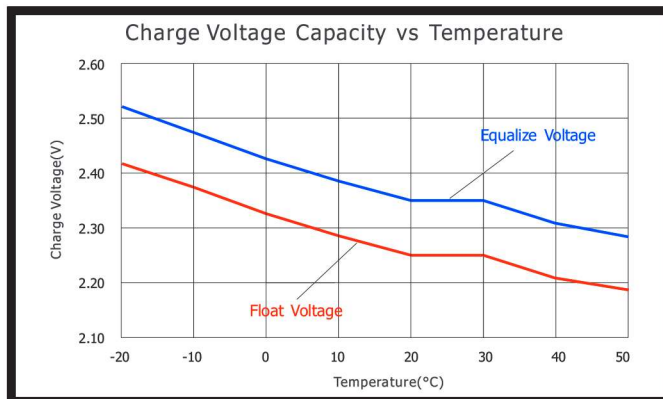
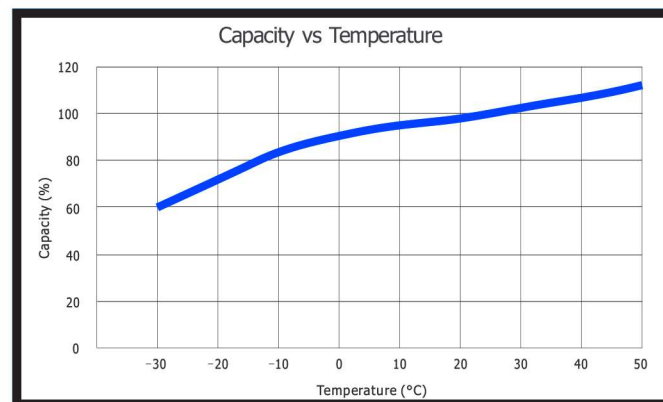
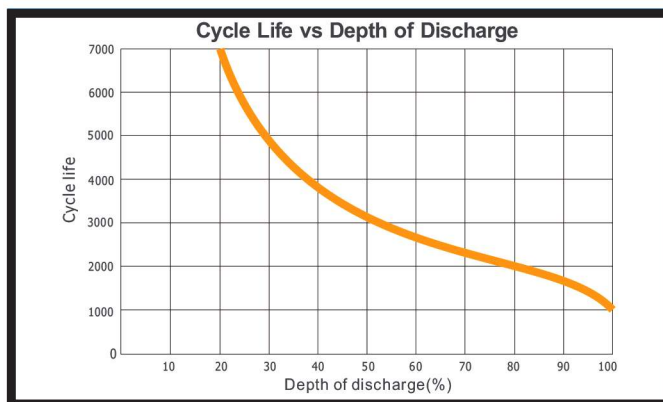
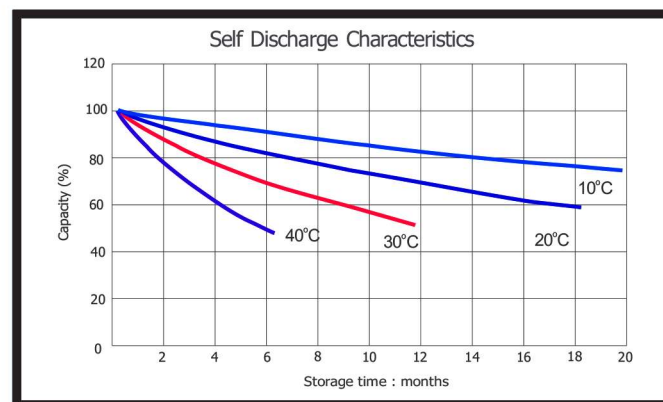
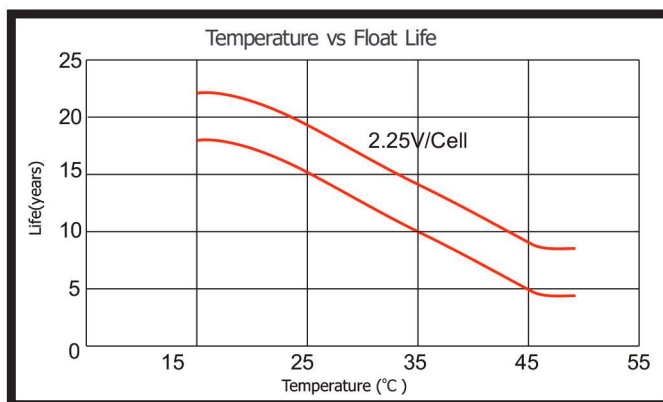
OPzV GEL 2V Characteristic Battery Charts



OPzV GEL- VRLA BATTERIES

CHARACTERISTICS

OPzV GEL 2V Characteristic Battery Charts



DP ELECTRONICS (DEUTSCHE POWER CO., LIMITED)



Germany Head Office

DP electronics (Deutsche Power Co., Limited) Klon, Germany.
Phone: +49-221-26016266
Fax: +49-221-26016267
Email: enquiries@deutschepower.de

Hong Kong Office

RM 1701(057), 17/F, HeNan Building No90, Wan Chai, Hong Kong.
Phone: +86-137-237-44698
Fax: +86-755-82610233
helenlong@deutschepower.de