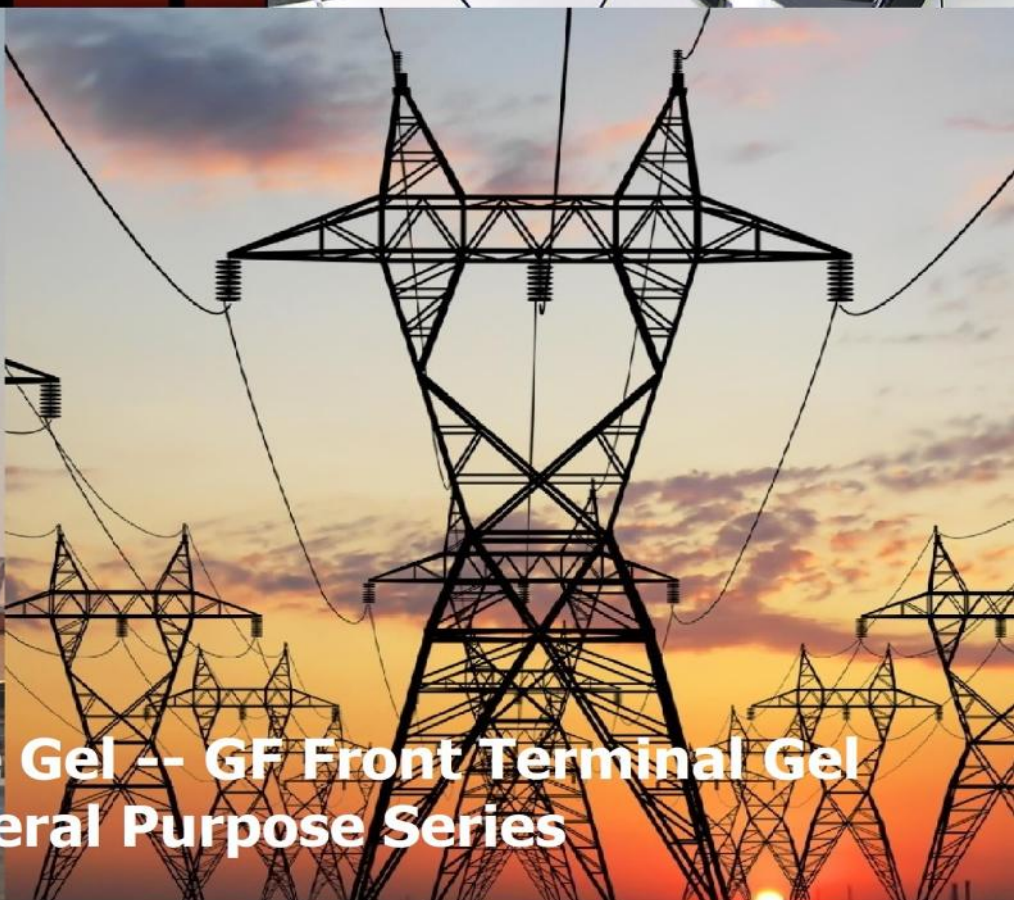
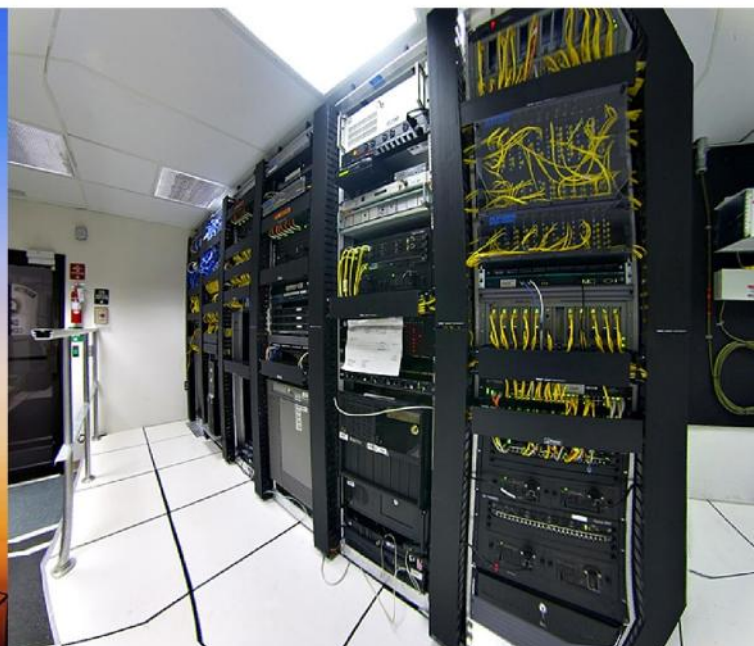


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VRLA-GEL Batteries



**GD Deep Cycle Gel -- GF Front Terminal Gel
GL General Purpose Series**

catalogue

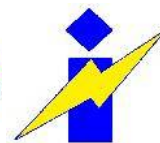
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Certificate No.: 09-QEO-01427-TIC



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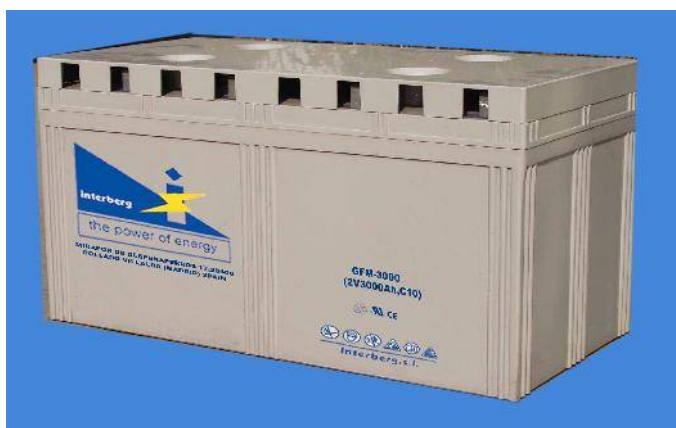
VRLA-Gel GD Series Deep Cycle Gel Batteries

General Characteristics and Features

GD (Deep Cycle Gel) are pure gel batteries with 15-20 years floating design life. They are ideally suited for stand-by or frequent cyclic discharge applications under harsh environments. Thanks to their strong grids, the high purity lead and the patented gel electrolyte, the GD Series batteries do offer an excellent recovery from deep discharge under frequent cyclic discharge use. The GD deep cycle gel batteries can deliver 400 cycles at 100 DOD.

Application examples (brief selection)

Solar installations,
CATV,
Marine,
Deep discharge UPS
Telecommunication system
Solar system
Wind system
Power stations.....

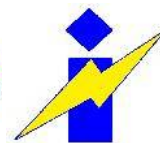


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VRLA-Gel GD Series models (2V, 6V & 12 V)

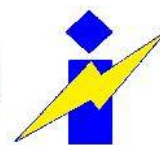
Model	Nom. Voltage (V)	Rated Capacity Ah/10h (1.80V 25°C)	Internal Resist. mΩ	Approx Dimensions (mm)				Terminal Type	Weight ±3% (Kg)
				Length ±2 mm	Width ±1.5 mm	Height ±2 mm	Total Height ±2 mm		
GD-060100RR	6	100	5.0	194	170	205	212	F14	16.50
GD-060150RR	6	150	4.5	260	180	242	252	F12	23.50
GD-060180RR	6	180	5.0	306	168	220	227	F12	26.50
GD-060200RR	6	200	4.0	260	180	245	252	F12	30.00
GD-060225RR	6	225	4.0	322	178	226	231	F14-F16	32.00
GD-060280RR	6	280	3.0	295	178	346	364	F14	41.70
GD-060310RR	6	310	2.1	295	178	346	364	F14	44.50
GD-060335RR	6	335	2.0	295	178	346	364	F14	45.50
GD-120033RR	12	33	9.5	195	130	155	168	F7-F11	10.20
GD-120040RR	12	40	9.0	198	166	169	169	F14-F11	13.20
GD-120055RR	12	55	8.6	229	138	211	216	F11-F15	17.00
GD-120060RR	12	60	8.5	260	169	211	218	F11-F15	20.50
GD-120065RR	12	65	8.0	350	167	182	182	F5-F11	21.00
GD-120070RR	12	70	8.0	350	167	182	182	F5-F11	22.50
GD-120075RR	12	75	7.0	260	169	211	218	F11-F15	23.50
GD-120080RR	12	80	7.0	260	169	211	218	F11-F15	25.00
GD-120085RR	12	85	6.0	307	169	210	215	F11-F15	26.00
GD-120090RR	12	90	6.5	307	169	210	231	F12-F15	28.50
GD-120100RR	12	100	7.5	328	172	215	220	F5-F12	30.00
GD-120120RR	12	120	5.5	407	177	225	225	F5-F12	35.50
GD-120134RR	12	134	5.0	340	173	280	287	F5-F12	41.50
GD-120145RR	12	145	5.0	340	173	280	287	F5-F12	44.00
GD-120150RR	12	150	6.0	483	170	241	241	F5-F12	50.00
GD-120160RR	12	160	6.0	532	207	214	219	F12-F16	50.00
GD-120180RR	12	180	5.5	532	207	214	219	F12-F16	53.00
GD-120200RR	12	200	5.2	522	240	219	224	F10	60.00
GD-120225RR	12	225	4.8	522	240	219	224	F10	65.00
GD-120230RR	12	230	6.0	521	269	204	209	F12	67.00
GD-120260RR	12	260	5.0	520	268	220	225	F14	74.00
GD-020200RR	2	200	0.8	173	110	328	351	F10	14.00
GD-020250RR	2	250	1.17	171	150	330	353	F10	17.50
GD-020350RR	2	350	0.8	211	176	330	353	F10	24.50
GD-020400RR	2	400	1.0	211	176	330	353	F10	26.00
GD-020450RR	2	450	1.0	211	176	330	353	F10	29.00

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Model	Nom. Voltage (V)	Rated Capacity Ah/10h (1.80V 25°C)	Internal Resist. mΩ	Approx Dimensions (mm)				Terminal Type	Weight ±3%(Kg)
				Length ±2 mm	Width ±1.5 mm	Height ±2 mm	Total Height ±2 mm		
GD-020500RR	2	500	1.00	242	172	330	353	F10	30.50
GD-020600RR	2	600	0.63	302	175	330	353	F10	37.00
GD-020650RR	2	650	0.63	302	175	330	353	F10	40.00
GD-020750RR	2	750	0.60	409	175	330	353	F10	46.00
GD-020800RR	2	800	0.60	409	175	330	353	F10	50.00
GD-021000RR	2	1000	0.60	475	174	328	351	F10	62.00
GD-021200RR	2	1200	0.81	475	174	328	351	F10	74.00
GD-021500RR	2	1500	0.75	401	350	341	364	F10	96.00
GD-022000RR	2	2000	0.40	490	350	341	364	F10	126.50
GD-022500RR	2	2500	0.30	710	353	341	364	F10	171.00
GD-023000RR	2	3000	0.30	710	353	341	364	F10	193.00



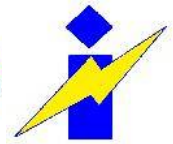
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VRLA-Gel Front Terminal Deep Cycle Batteries

General Characteristics and Features

Capacity range: 33Ah-3000Ah (25°C)

Voltage class : 2V/6V/12V

Number of cycles (25°C) :

30%DOD: 1700 cycles (12V/6V) 2000 cycles (2V)

50%DOD: 800 cycles (12V/6V) 1000 cycles (2V)

100%DOD: 400cycles (12V/6V) 500 cycles (2V)

Can be used in deep/shallow discharge cycle

Low self-discharge rate: $\leq 2\%$ /month (25°C)

Design life: floating life is 12 years

Operation temperature range: -20~50°C

Recommended operation temperature 25°C

Design Features

Longer Service Life

High Reliability and Quality

Good deep discharge cycle capability

Excellent Recovery from Deep Discharge

Application Examples

Standby power supply - UPS - Power supply - Telecommunication system - Solar system - Wind system - Power station – Communication Stations

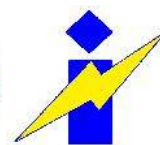


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VRLA-Gel Front Terminal Deep Cycle Batteries GF Series

Model	Nom. Voltage (V)	Rated Capacity Ah/10h (1.80V 25°C)	Internal Resist. mΩ	Approx Dimensions (mm)				Terminal Type	Weight ±3%(Kg)
				Length ±2 mm	Width ±1.5 mm	Height ±2 mm	Total Height ±2 mm		
GF-120055WA	12	50		277	106	221	221	F14	15.50
GF-120055RR	12	55	9.00	291	106	230	230	F11	18.00
GF-120075WA	12	75		562	114	189	189	F14	24.50
GF-120090RR	12	90	8.70	562	114	188	188	F6	26.50
GF-120100WA	12	100		506	110	224	239	F14	32.00
GF-120105RR	12	105	7.50	508	110	236	236	F8-F17	32.50
GF-120110WA	12	110		495	110	286	286	F14	33.00
GF-120120WA	12	120		551	110	239	239	F13	36.00
GF-120125WA	12	125		436	108	317	317	F13	38.50
GF-120150WA	12	150		551	110	287	287	F13	48.00
GF-120160RR	12	160	6.00	565	110	288	288	F9	47.00
GF-120180WA	12	180		560	126	316	323	F13	56.00

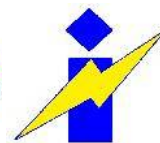


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VRLA-Gel Batteries

General Characteristics

Capacity range: 33Ah-3000Ah (25°C)

Voltage class : 2V/6V/12V

Number of cycles (25°C) :

30%DOD: 1700 cycles (12V/6V) 2000 cycles (2V)

50%DOD: 800 cycles (12V/6V) 1000 cycles (2V)

100%DOD: 400cycles (12V/6V) 500 cycles (2V)

Can be used in deep/shallow discharge cycle

Low self-discharge rate: $\leq 2\%$ /month (25°C)

Design life:

floating life 12V is 12 years for 12V blocs; 18 years for 2V cells and 6V blocs (25°C)

Operation Temperature range: -20°C ~ +50°C

Recommended operation temperature: 25°C (IEC-896)



Design Features

Longer Service Life

High Reliability and Quality

Good deep discharge cycle capability

Excellent Recovery from Deep Discharge

Application examples (brief selection)

Standby power supply

UPS

Power supply

Telecommunication system

Solar system

Wind system

Power stations

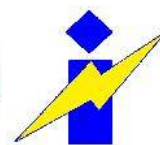


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VRLA-Gel GL Series models (2V, 6V & 12 V)

Model	Nom. Voltage (V)	Rated Capacity Ah/10h (1.80V 25°C)	Internal Resist. mΩ	Approx Dimensions (mm)				Terminal Type	Terminal Location	Weight ±3%(Kg)
				Length ±2 mm	Width ±1.5 mm	Height ±2 mm	Total Height ±2 mm			
GL-060100NP	6	100	3	194	170	205	210	T14	A	16.0
GL-060150NP	6	150	2.5	260	180	245	250	T16	B	25.5
GL-060180NP	6	180	2.2	306	169	220	225	T16	B	29.5
GL-060200NP	6	200	2	322	178	227	230	T16	A	30.5
GL-120033NP	12	33	9.5	195	130	155	167/180	T14/T6	C	11.0
GL-120040NP	12	40	8.5	197	165	170	170	T14	D	13.5
GL-120050NP	12	50	7	230	138	211	215	T15	D	17.3
GL-120065NP	12	65	7	350	166	179	179	T14	C	21.0
GL120070NP	12	70	6	260	169	211	215	T14	C	23.2
GL-120075NP	12	75	6	260	169	211	215	T14	C	24.2
GL-120080NP	12	80	5.5	260	169	211	215	T14	C	25.3
GL-120090NP	12	90	5.5	306	169	211	215	T14	C	28.5
GL-120100NP	12	100	5	330	171	214	220	T16	C	30.5
GL-120120NP	12	120	4.5	409	176	225	225	T16	C	36.0
GL-120150NP	12	150	3.8	485	172	240	240	T16	C	44.5
GL-120200NP	12	200	3.3	522	238	218	222	T16	E	62.5
GL-120250NP	12	250	2.8	521	269	220	224	T16	E	74.5
GL-020200NP	2	200	0.95	171	111	330	364	T20	D	14.0
GL-020300NP	2	300	0.8	171	151	330	364	T20	D	19.5
GL-020400NP	2	400	0.65	210	176	330	367	T20	H	27.0
GL-020500NP	2	500	0.55	241	171	330	365	T20	H	31.5
GL-020600NP	2	600	0.5	302	175	330	367	T20	H	38.0
GL-020800NP	2	800	0.4	410	175	330	367	T20	I	53.0
GL-021000NP	2	1000	0.3	475	175	330	367	T20	I	63.0
GL-021500NP	2	1500	0.23	400	350	345	382	T20	J	96.5
GL-022000NP	2	2000	0.2	490	350	345	382	T20	K	131
GL-023000NP	2	3000	0.13	710	350	345	382	T20	K	191

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