



APPLICATIONS

- SOLAR /PHOTOVOLTAIC
- ALTERNATIVE ENERGY
- CATV
- WIRELESS
- MOBILE SWITCHING SYSTEMS
- UTILITY
- OIL AND GAS

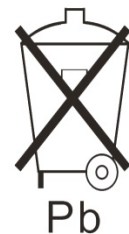
The Deep Cycle Gel (DCG) Valve Regulated Lead Acid batteries are designed to provide the latest advancement in plate and battery technology offering high energy densities, exceptional service life, low self discharge, high cycling capabilities and low float charge current characteristics.

DCG GEL technology VRLA batteries with optimized recombination technology and superior performance are specifically designed for Solar and Alternative energy storage applications where extreme deep cycling and high temperatures are experienced and offer superior heat dissipation while providing the highest level of reliability and service longevity.

DCG VRLA batteries are manufactured in compliance with IEC, ISO, and CE quality and performance standards.

FEATURES

- 12-Year Design Life
- Initial capacity at 100%
- Recombination efficiency of 99.9%
- Advanced Nano-gel Technology
- Flame Retardant ABS Cover and Container, UL94 V-0, LOI>28%
- 6 month of storage at 77°F (25°C) capacity > 86%
- Monoblock 6v & 12v construction
- Low-Calcium-Tin grid alloy
- Low pressure one-way flame arresting valve(s) UL924
- High reliability tongue-n-groove case to cover seal
- Proprietary 3 part post-to-cover seal ensuring operating service life integrity
- Copper alloy insert top terminals



INDUSTRY COMPLIANCE

- UL Recognized Component 924 & UL Certified Vertical Flame Test Rating 94V-0
- ISO9001:2000 ISO14001

TRANSPORTATION

- Classified as Nonspillable UN 2800 and meet the Nonspillable criteria listed in DOT-CFR Title 49, 171-189 (d) (3) (i) and (ii) and exempt from CFR 49, Subchapter C requirements
- Meets transportation conditions of IMDG exemption 238, IATA/ICAO Special Provision A67 (Not Restricted)



SPECIFICATIONS

Float Charging Voltage	Equalize /Cycle or Freshening Charging Voltage
2.25Vpc to 2.27Vpc @ 77°F (25°C)	2.35Vpc to 2.40Vpc @ 77°F (25°C)
See Operations and Maintenance Manual for specific guidelines and recharge times	

Charging Temperature Compensation	-2 mV/cell/°F > 77°F (-3.6 mV/cell/°C > 25°C)
	+2 mV/cell/°F < 77°F (+3.6 mV/cell/°C < 25°C)

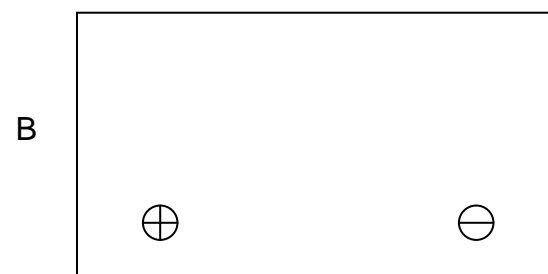
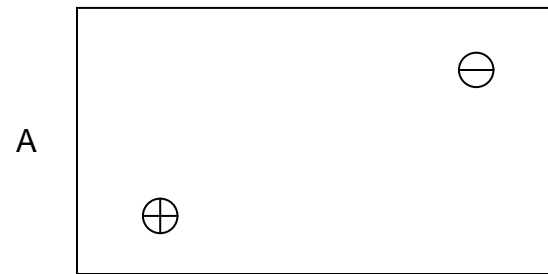
Maximum AC Ripple (Charger)	Maximum Charge Current
0.5% RMS, 1.5% peak-to-peak for float charge voltage for best results	C ₅ Rate Amps (5 hour rate @ 1.75vpc)

Electrolyte	Self Discharge Rate
Imobilized 1.300 s.g. H ₂ SO ₄	<2% per month at 77°F (25°C)

Relief Valve	Self Resealing; Operates at 2 to 3 psi and is complete with integral flame arrestor
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Terminal Type	Torque / Retorque
M6-F < 70Ah	90 in-lbs (10 Nm) / 78 in-lbs (8 Nm)
M6-F >70Ah	60 in-lbs (7 Nm) / 48 in-lbs (5.6 Nm)

Operating Temperature Range	
Nominal	Discharge
+74°F (24°C) to 80°F (27°C)	-40°F (-40°C) to +140°F (60°C)
Charge	Storage Temperature Range
-20°F (-28°C) to +122°F (50°C)	-4°F (-20°C) to +104°F (40°C)



PHYSICAL PROPERTIES & DIMENSIONS

Model	V	Ah @ 20hrs	Ah @ 100hrs	Length (A)		Width (C)		Height (D)		Weight		Type	Terminal Type
				in	mm	in	mm	in	mm	lbs.	kg		
DCG6-200	6	200	210	10.2	260	7.1	180	9.9	252	64	29	A	M6-F
DCG12-55	12	55	58	9.1	229	5.5	138	8.5	215	41.2	18.7	B	M6-F
DCG12-65	12	65	68	13.8	350	6.6	167	7.1	179	51.7	23.5	B	M6-F
DCG12-70	12	75	79	10.2	259	6.7	169	8.5	215	55.9	25.4	B	M6-F
DCG12-90	12	90	95	12.1	307	6.7	169	8.6	216	69.8	31.7	B	M6-F
DCG12-100	12	100	105	13.0	328	6.8	172	8.8	222	73.7	33.5	B	M6-F
DCG12-120	12	120	126	13.0	328	6.8	172	8.8	222	74.8	34.0	B	M6-F
DCG12-134	12	134	141	13.5	341	6.9	173	11.3	285	92.4	42.0	B	M6-F
DCG12-150	12	150	158	19.0	483	6.7	170	9.5	240	98	45	B	M6-F
DCG12-160	12	160	168	20.9	530	8.2	209	8.6	219	117	53	B	M6-F
DCG12-200	12	200	210	20.6	522	9.5	240	9.5	240	132	60	C	M6-F
DCG12-230	12	230	242	20.5	521	10.6	269	8.2	208	152	69	C	M6-F
DCG12-260	12	260	273	20.5	520	10.6	268	8.9	225	163	74	C	M6-F

AH Capacity and Runtime in Minutes to 1.75VPC at 77°F (25°C)

Model No.	V	Ah to 1.75VPC at 77F/25C						Time in Minutes @ 77F/25C					
		1hr	3hr	5hr	10hr	20hr	100hr	5 A	8 A	15 A	25 A	50 A	75 A
DCG6-200	6	115	139	161	187	200	223	2143	1368	804	437	165	123
DCG12-55	12	32	38	44	51	55	61	602	352	157	97	35	20
DCG12-65	12	37	45	52	61	65	73	780	446	173	121	45	25
DCG12-75	12	43	52	61	70	75	73	911	515	223	138	51	29
DCG12-90	12	52	63	73	84	90	101	1052	628	277	156	64	40
DCG12-100	12	58	69	81	93	100	112	1122	741	333	165	82	46
DCG12-120	12	71	83	97	112	120	134	1335	911	438	209	110	54
DCG12-134	12	77	93	108	125	134	150	1584	999	493	245	125	63
DCG12-150	12	86	104	121	140	150	168	1856	1080	543	277	138	82
DCG12-160	12	92	111	129	150	160	179	1998	1122	569	307	145	93
DCG12-200	12	115	139	161	187	200	223	2425	1400	805	438	165	124
DCG12-230	12	132	160	186	215	230	257	2647	1757	929	507	195	140
DCG12-260	12	150	181	210	243	260	290	2850	2031	1025	559	235	153

Constant Current Discharge Rate in Amps to 1.75VPC at 77°F (25°C)

Model No.	Discharge Rate in Min								Discharge Rate in Hrs								
	5	10	15	20	30	45	60	90	3	5	8	10	12	20	24	48	100
DCG6-200	578	415	317	278	201	158	115	98	46.3	32.3	18.7	9.7	8.1	4.1	2.23	578	415
DCG12-55	159	114	87	77	55	43	32	27	12.7	8.9	5.1	2.7	2.2	1.1	0.61	159	114
DCG12-65	188	135	103	90	65	51	37	32	15.1	10.5	6.1	3.2	2.6	1.3	0.73	188	135
DCG12-75	217	156	119	104	75	59	43	37	17.4	12.1	7.0	3.6	3.0	1.5	0.73	217	156
DCG12-90	260	187	143	125	91	71	52	44	20.8	14.5	8.4	4.4	3.6	1.8	1.01	260	187
DCG12-100	289	207	159	139	101	79	58	49	23.2	16.1	9.3	4.9	4.0	2.0	1.12	289	207
DCG12-120	347	249	190	167	121	95	69	59	27.8	19.4	11.2	5.8	4.9	2.5	1.34	347	249
DCG12-134	388	278	212	187	135	106	77	66	31.0	21.6	12.5	6.5	5.4	2.7	1.50	388	278
DCG12-150	434	311	238	209	151	119	86	73	34.7	24.2	14.0	7.3	6.1	3.1	1.68	434	311
DCG12-160	463	332	254	223	161	127	92	78	37.1	25.8	15.0	7.8	6.5	3.3	1.79	463	332
DCG12-200	578	415	317	278	201	158	115	98	46.3	32.3	18.7	9.7	8.1	4.1	2.23	578	415
DCG12-230	665	477	365	320	231	182	132	113	53.3	37.1	21.5	11.2	9.3	4.7	2.57	665	477
DCG12-260	752	539	412	362	262	206	150	127	60.2	42.0	24.3	12.6	10.5	5.3	2.90	752	539