

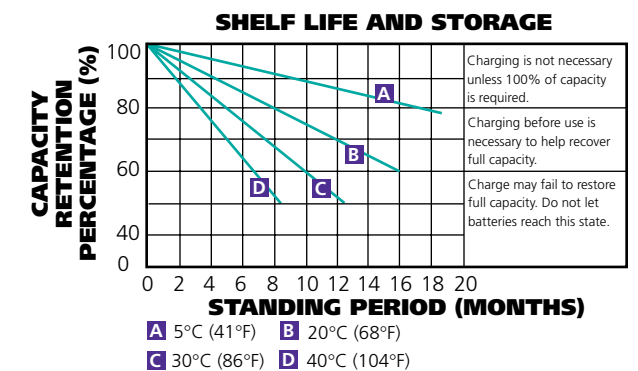
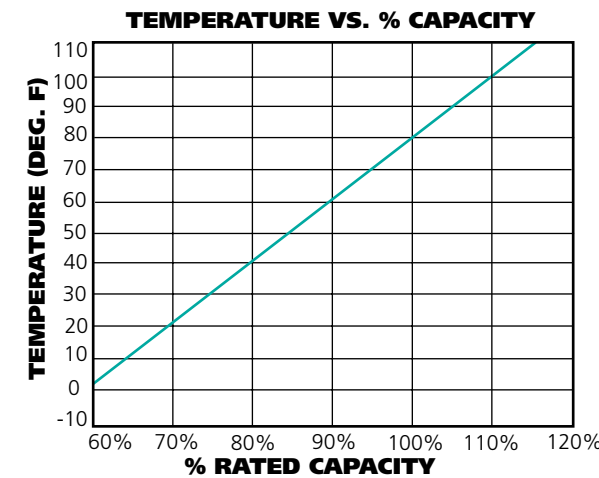
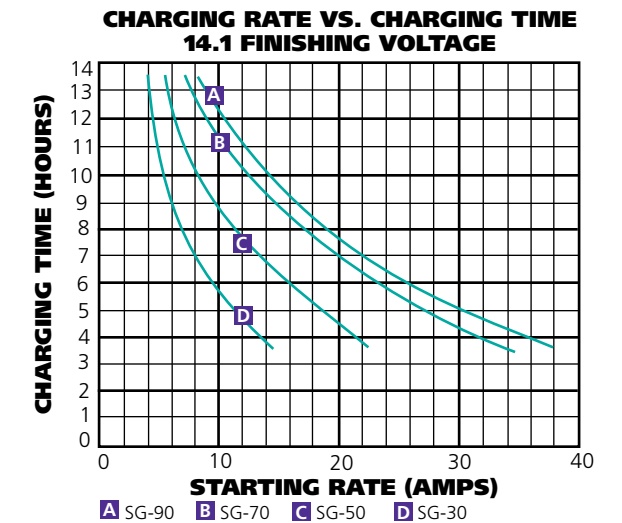
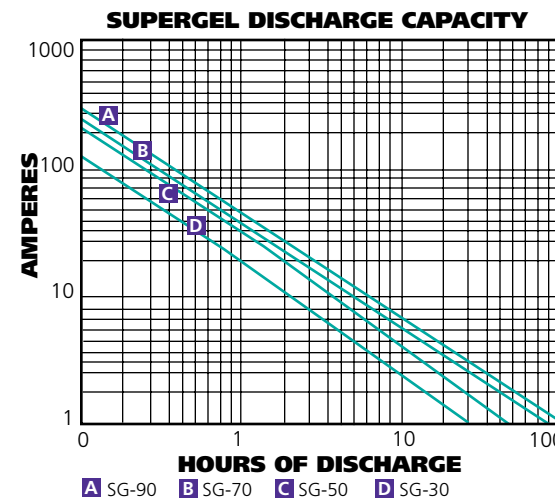
# SUPERGEL CYCLING SERIES

AFTER 75 YEARS, THINGS HAVE REALLY STARTED TO GEL AROUND HERE.



Good things happen when you commit money and minds to technology. Breakthroughs like SUPERGEL, for example.

Building a great Gel battery is no slam-dunk. If it were, there would be dozens of great ones already out there. But our engineers, product designers and operations people were up to the task after they understood and addressed the seven deadly sins of existing gel products. **1) Premature battery dryout.** Too many gel batteries died young. We addressed the problem with a variety of solutions. We added an epoxy post seal to prevent gas leakage. We included a pressure relief valve for each individual cell to prevent capacity imbalances between cells. And we utilized a polypropylene heat-sealed container and cover for minimum water and gas transmission. **2) End wall expansion.** End walls expanded and weakened because they were too thin. Solution? Reinforced, extra thick end wall construction. **3) Thermal management.** Heat can generate faster than it's dissipated. This can cause the case to melt, rupture or worse. Our proprietary Gel formulation provides more efficient heat transfer and lessens the danger of thermal runaway. **4) Stratification.** Some VRLA designs suffer from stratification of the electrolyte. Our specially formulated gelled electrolyte will not stratify. **5) Short cycle life.** Not all pastes are created equal. Our proprietary Alpha Plus paste formula is proven in extending the life of the positive plate and the life of the battery. **6) Terminal corrosion.** A corroded terminal puts your power system at risk. We solved the problem with our epoxy post seal combined with our unique low resistance terminal design. **7) Grid corrosion.** This is one of the more common causes of battery failure. Overcharged grids deteriorate. Our proprietary alloy minimizes grid corrosion and maximizes conductivity between the grid and active material. If you've been looking for the best Gel battery available, congratulations. You've found it. The SUPERGEL CYCLING SERIES from Trojan. Proprietary alloy for greater cycle life. Enhanced plated design for longer run time. Advanced Gel Technology for improved thermal management. And acclaimed Alpha Plus paste for better performance. It's everything you've always wanted, but didn't know who to ask or where to look.



## SUPERGEL CYCLING SERIES PRODUCT SPECIFICATIONS @ 80°F (27°C)

TYPE	BCI GROUP	TERMINAL <sup>1</sup>	HANDLE	RESERVE MINUTES AT DISCHARGE						DISCHARGE					AMPS TO END VOLTAGE				AMPERE HOUR CAPACITY				DIMENSIONS								
				5 AMPS	8 AMPS	15 AMPS	25 AMPS	50 AMPS	75 AMPS	5 MIN	10 MIN	15 MIN	20 MIN	30 MIN	60 MIN	90 MIN	3 HR	6 HR	8 HR	20 HR	24 HR	48 HR	100 HR	1 HR RATE	3 HR RATE	5 HR <sup>3</sup> RATE	20 HR RATE	WEIGHT LBS (KG)	LENGTH IN (MM)	WIDTH IN (MM)	HEIGHT <sup>2</sup> IN (MM)
SG-30	U1	B OR LT	STANDARD	315	189	95	50	21	12	150.9	87.9	64.1	51.2	37.3	21.7	15.8	8.4	4.4	3.4	1.5	1.3	0.6	0.3	22	25	27	30	23 (10)	7 5/8 (194)	5 3/16 (132)	7 (178)
SG-50	22NF	B OR LT	STANDARD	582	346	172	96	39	23	240.7	141.5	103.7	83.2	61.0	35.9	26.3	14.4	7.7	6.0	2.6	2.2	1.2	0.6	36	43	47	52	38 (17)	9 1/16 (230)	5 7/16 (138)	9 (229)
SG-70	24	B OR LT	STANDARD	860	504	246	138	57	33	311.5	185.2	136.7	110.1	81.3	48.3	35.7	19.8	10.7	8.3	3.7	3.2	1.7	0.8	48	59	65	75	52 (24)	11 3/16 (284)	6 11/16 (170)	9 (229)
SG-90	27	B OR LT	STANDARD	1012	600	299	169	71	42	388.9	227.5	166.2	133	97.2	56.9	41.5	23.7	12.7	9.8	4.3	3.6	2.0	1.0	57	71	77	86	61 (28)	13 1/16 (332)	6 11/16 (170)	9 (229)

1) Terminal Codes: B=Button or LT=LT; Both terminal types include connector bolt. 2) Height dimensions are for LT terminals, button terminals will reduce battery height 3/4" (19mm). 3) 5 hour rate is based on IEC (International Electrotechnical Commission) temperature standard of 30°C (86°F). Note: The torque specification for connection hardware for the button terminal is 90-100 in-lbs. Product is a UL recognized component. Product is nonspillable by DOT (Department of Transportation), ICAO (International Commercial Airline Organization) and IATA (International Airline Transport Association) definitions. Charging voltage: 13.8 V to 14.1 V @ 68°F (20°C)

## ORDERING INFORMATION

When ordering SUPERGEL batteries, please designate terminal information:  
 EXAMPLE: To order the SG-50 with button terminal, the part number would be: SG-50BH  
 To order the SG-70 with LT terminal, the part number would be: SG-70LTH

