

## Specific Gravity Extrapolated

Trojan T-105	Observed*			Any Temp:							
	80°F	45°F	30	80°F	32°F	30			30		
100%	1.277	1.264	1.297	60%	1.195	1.182	1.215	20%	1.098	1.085	1.118
99%	1.275	1.262	1.295	59%	1.193	1.180	1.213	19%	1.096	1.083	1.116
98%	1.273	1.260	1.294	58%	1.190	1.177	1.211	18%	1.093	1.080	1.113
97%	1.271	1.258	1.292	57%	1.188	1.175	1.208	17%	1.091	1.078	1.111
96%	1.269	1.256	1.290	56%	1.186	1.173	1.206	16%	1.088	1.075	1.108
95%	1.268	1.255	1.288	55%	1.184	1.171	1.204	15%	1.086	1.073	1.106
94%	1.266	1.253	1.286	54%	1.181	1.168	1.202	14%	1.083	1.070	1.103
93%	1.264	1.251	1.284	53%	1.179	1.166	1.199	13%	1.081	1.068	1.101
92%	1.262	1.249	1.282	52%	1.177	1.164	1.197	12%	1.078	1.065	1.098
91%	1.260	1.247	1.280	51%	1.174	1.161	1.195	11%	1.076	1.063	1.096
90%	1.258	1.245	1.278	50%	1.172	1.159	1.192	10%	1.073	1.06	1.093
89%	1.256	1.243	1.276	49%	1.170	1.157	1.190				
88%	1.254	1.241	1.274	48%	1.167	1.154	1.188				
87%	1.252	1.239	1.272	47%	1.165	1.152	1.185				
86%	1.250	1.237	1.270	46%	1.162	1.149	1.183				
85%	1.248	1.235	1.268	45%	1.160	1.147	1.180				
84%	1.246	1.233	1.266	44%	1.158	1.145	1.178				
83%	1.244	1.231	1.264	43%	1.155	1.142	1.176				
82%	1.242	1.229	1.262	42%	1.153	1.140	1.173				
81%	1.240	1.227	1.260	41%	1.150	1.137	1.171				
80%	1.238	1.225	1.258	40%	1.148	1.135	1.168				
79%	1.236	1.223	1.256	39%	1.146	1.133	1.166				
78%	1.234	1.221	1.254	38%	1.143	1.130	1.164				
77%	1.232	1.219	1.252	37%	1.141	1.128	1.161				
76%	1.230	1.217	1.250	36%	1.138	1.125	1.159				
75%	1.228	1.215	1.248	35%	1.136	1.123	1.156				
74%	1.225	1.212	1.246	34%	1.134	1.121	1.154				
73%	1.223	1.210	1.244	33%	1.131	1.118	1.152				
72%	1.221	1.208	1.242	32%	1.129	1.116	1.149				
71%	1.219	1.206	1.239	31%	1.126	1.113	1.147				
70%	1.217	1.204	1.237	30%	1.124	1.111	1.144				
69%	1.215	1.202	1.235	29%	1.121	1.108	1.142				
68%	1.213	1.200	1.233	28%	1.119	1.106	1.139				
67%	1.210	1.197	1.231	27%	1.116	1.103	1.137				
66%	1.208	1.195	1.229	26%	1.114	1.101	1.134				
65%	1.206	1.193	1.226	25%	1.111	1.098	1.131				
64%	1.204	1.191	1.224	24%	1.108	1.095	1.129				
63%	1.202	1.189	1.222	23%	1.106	1.093	1.126				
62%	1.199	1.186	1.220	22%	1.103	1.090	1.124				
61%	1.197	1.184	1.218	21%	1.101	1.088	1.121				
60%	1.195	1.182	1.215	20%	1.098	1.085	1.118				

\*from specific gravity reading taken immediately after equalization charge; error suspected due to high gas content in electrolyte

\*Temperature correction is 0.000410256 for each 1°F less 80°F - from [www.SunXtender.com](http://www.SunXtender.com)

Reference Values*		Corrected	Under Load
Volt 80° F	SOC (%)	Volt 80°F	20 Amps DC
12.73	100	12.73	12.41
12.68	95	12.68	12.36
12.62	90	12.62	12.30
12.56	85	12.56	12.24
12.50	80	12.50	12.18
12.44	75	12.44	12.12
12.37	70	12.37	12.05
12.31	65	12.31	11.99
12.24	60	12.24	11.92
12.17	55	12.17	11.85
12.10	50	12.10	11.78
11.96	40	11.96	11.64
11.81	30	11.81	11.49
11.66	20	11.66	11.34
11.51	10	11.51	11.19

\*reference values from Trojan T-105 data sheet

input corrected V reading ::

0

corrected for 20 Amp load ::

0.32

20 Amp DC													
°F	100%	95%	90%	85%	80%	75%	70%	65%	60%	55%	50%	40%	30%
0	12.14	12.09	12.03	11.97	11.91	11.85	11.78	11.72	11.65	11.58	11.51	11.37	11.22
10	12.18	12.12	12.07	12.01	11.95	11.88	11.82	11.75	11.69	11.62	11.55	11.41	11.26
20	12.21	12.16	12.10	12.04	11.98	11.92	11.85	11.79	11.72	11.65	11.58	11.44	11.29
30	12.24	12.19	12.13	12.07	12.01	11.95	11.88	11.82	11.75	11.68	11.61	11.47	11.32
40	12.28	12.22	12.17	12.11	12.05	11.98	11.92	11.85	11.79	11.72	11.65	11.51	11.36
50	12.31	12.26	12.20	12.14	12.08	12.02	11.95	11.89	11.82	11.75	11.68	11.54	11.39
60	12.34	12.29	12.23	12.17	12.11	12.05	11.98	11.92	11.85	11.78	11.71	11.57	11.42
70	12.38	12.32	12.27	12.21	12.15	12.08	12.02	11.95	11.89	11.82	11.75	11.61	11.46
80	12.41	12.36	12.30	12.24	12.18	12.12	12.05	11.99	11.92	11.85	11.78	11.64	11.49
90	12.44	12.39	12.33	12.27	12.21	12.15	12.08	12.02	11.95	11.88	11.81	11.67	11.52
100	12.48	12.42	12.37	12.31	12.25	12.18	12.12	12.05	11.99	11.92	11.85	11.71	11.56
110	12.51	12.46	12.40	12.34	12.28	12.22	12.15	12.09	12.02	11.95	11.88	11.74	11.59
120	12.54	12.49	12.43	12.37	12.31	12.25	12.18	12.12	12.05	11.98	11.91	11.77	11.62

Open Circuit													
°F	100%	95%	90%	85%	80%	75%	70%	65%	60%	55%	50%	40%	30%
0	12.46	12.41	12.35	12.29	12.23	12.17	12.10	12.04	11.97	11.90	11.83	11.69	11.54
10	12.50	12.44	12.39	12.33	12.27	12.20	12.14	12.07	12.01	11.94	11.87	11.73	11.58
20	12.53	12.48	12.42	12.36	12.30	12.24	12.17	12.11	12.04	11.97	11.90	11.76	11.61
30	12.56	12.51	12.45	12.39	12.33	12.27	12.20	12.14	12.07	12.00	11.93	11.79	11.64
40	12.60	12.54	12.49	12.43	12.37	12.30	12.24	12.17	12.11	12.04	11.97	11.83	11.68
50	12.63	12.58	12.52	12.46	12.40	12.34	12.27	12.21	12.14	12.07	12.00	11.86	11.71
60	12.66	12.61	12.55	12.49	12.43	12.37	12.30	12.24	12.17	12.10	12.03	11.89	11.74
70	12.70	12.64	12.59	12.53	12.47	12.40	12.34	12.27	12.21	12.14	12.07	11.93	11.78
80	12.73	12.68	12.62	12.56	12.50	12.44	12.37	12.31	12.24	12.17	12.10	11.96	11.81
90	12.76	12.71	12.65	12.59	12.53	12.47	12.40	12.34	12.27	12.20	12.13	11.99	11.84
100	12.80	12.74	12.69	12.63	12.57	12.50	12.44	12.37	12.31	12.24	12.17	12.03	11.88
110	12.83	12.78	12.72	12.66	12.60	12.54	12.47	12.41	12.34	12.27	12.20	12.06	11.91
120	12.86	12.81	12.75	12.69	12.63	12.57	12.50	12.44	12.37	12.30	12.23	12.09	11.94

\*Temperature correction is -0.01V/3°F less 80°F - from <http://www.dekabatteries.com/>