FLOODED LEAD-ACID BATTERY STATE-OF-CHARGE (Open-circuit voltage at rest, with no charging or load)

SOC	V open circuit 6-V battery	V open circuit 12-V battery	V open circuit 24-V bank	V open circuit 48-V bank	specific gravity per cell
100%	6.37	12.73	25.46	50.92	1.277
90%	6.31	12.62	25.24	50.48	1.258
80%	6.25	12.50	25.00	50.00	1.238
70%	6.19	12.37	24.74	49.48	1.217
60%	6.12	12.24	24.48	48.96	1.195
50%	6.05	12.10	24.20	48.40	1.172
40%	5.98	11.96	23.92	47.84	1.148
30%	5.91	11.81	23.62	47.24	1.124
20%	5.83	11.66	23.32	46.64	1.098
10%	5.75	11.51	23.02	46.04	1.073

Typical values at 77–80°F after 6–24 hours at rest. Readings vary by manufacturer, temperature, age, and condition. Use manufacturer specifications when available.

At 67–70°F, resting voltage may read about 0.01V lower per 12V batt 10°F below 80°F. This small difference usually does not materially change the state-of-charge estimate.

For hydrometer readings, subtract 0.004 for each 10°F below 80°F.

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