

Temperature Affects On Lead Acid Batteries

Specific Gravity Temperature Correction		Cell Voltage Temperature Correction		Freezing points of battery Electrolyte	
Electrolyte Temperature	Hydrometer Correction	Electrolyte Temperature	Cell Voltage Correction	Electrolyte Temperature	Specific Gravity
49-51 °F	-0.009	49-51 °F	-.09	32 °F	1.000
52-54 °F	-0.008	52-54 °F	-.08	25 °F	1.050
55-57 °F	-0.007	55-57 °F	-.07	18 °F	1.100
58-60 °F	-0.006	58-60 °F	-.06	14 °F	1.125
61-63 °F	-0.005	61-63 °F	-.05	5 °F	1.150
64-66 °F	-0.004	64-66 °F	-.04	-4 °F	1.175
67-69 °F	-0.003	67-69 °F	-.03	-15 °F	1.200
70-72 °F	-0.002	70-72 °F	-.02	-23 °F	1.210
73-75 °F	-0.001	73-75 °F	-.01	-33 °F	1.220
76-78 °F	No Correction	76-78 °F	No Correction	-42 °F	1.230
79-81 °F	+0.001	79-81 °F	+.01	Temperature Affects on Battery Capacity	
82-84 °F	+0.002	82-84 °F	+.02		
85-87 °F	+0.003	85-87 °F	+.03		
88-90 °F	+0.004	88-90 °F	+.04		
91-93 °F	+0.005	91-93 °F	+.05		
94-96 °F	+0.006	94-96 °F	+.06		
97-99 °F	+0.007	97-99 °F	+.07		
100-102 °F	+0.008	100-102 °F	+.08		
				Temperature	Capacity
				77 °F	100%
				60 °F	95%
				50 °F	91%
				40 °F	87%
				30 °F	81%
				20 °F	74%