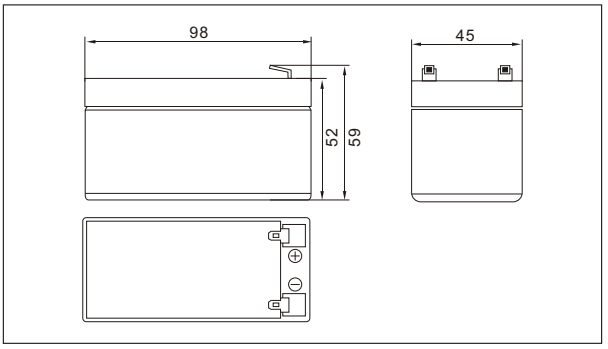
ELBRO AG
Swiss Technology Company

SW1213(12V1.3AH)



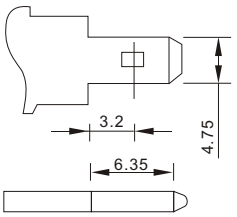
Outer dimensions (mm)



Specifications

Nominal Voltage		12V
Rated capacity (20 hour rate)		1.3Ah
Dimensions	Total Height	59mm (2.32 inches)
	Height	52mm (2.05 inches)
	Length	98mm (3.86 inches)
	Width	45mm (1.77 inches)
Weight Approx		0.58Kg (1.28 lbs)

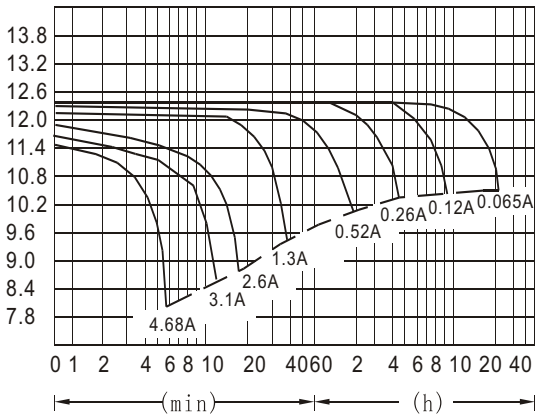
Terminal Type (mm)



Characteristics

Capacity 25℃(77℉)	20 hour rate(0.065A)	1.30 AH
	10 hour rate(0.12A)	1.20 AH
	5 hour rate(0.22A)	1.10 AH
	1 hour rate(0.78A)	0.78 AH
	1.5 hour discharge to 10.5V	0.52 A
Internal Resistance	Full charged Battery at 25℃(77℉)	65 mΩ
Capacity affected by Temperature (20hour rate)	40℃(104℉)	102%
	25℃(77℉)	100%
	0℃(32℉)	85%
	-15℃(5℉)	65%
Self-Discharge at 25℃(77℉)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Terminal	T0	
Charge (constant Voltage) Cycle	Initial Charging Current less than 0.52A Voltage 14.40-15.00V	
Charge (constant Voltage) Float	Voltage 13.50-13.80V	

Discharge Curves 25℃(77℉)



Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25℃(77℉)

Time		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	4.68	3.07	2.28	1.50	0.78	0.46	0.33	0.27	0.23	0.15	0.12	0.067
	W	48.6	33.0	24.4	16.1	8.42	5.00	3.73	3.02	2.59	1.73	1.42	0.781
10.20V	A	4.29	2.94	2.09	1.42	0.73	0.44	0.33	0.26	0.22	0.15	0.12	0.066
	W	46.1	32.8	23.4	15.9	8.28	5.03	3.76	3.02	2.61	1.73	1.42	0.769
10.50V	A	3.91	2.74	1.95	1.38	0.71	0.43	0.32	0.25	0.22	0.15	0.12	0.065
	W	42.9	31.2	22.3	15.8	8.20	4.96	3.72	2.89	2.61	1.72	1.42	0.768
10.80V	A	3.75	2.62	1.82	1.34	0.68	0.42	0.31	0.24	0.21	0.14	0.12	0.063
	W	42.1	30.2	21.0	15.5	7.97	4.88	3.70	2.87	2.50	1.69	1.38	0.755
11.10V	A	3.47	2.47	1.69	1.30	0.66	0.41	0.30	0.24	0.20	0.14	0.11	0.062
	W	39.4	28.6	19.7	15.2	7.77	4.80	3.54	2.84	2.41	1.66	1.37	0.748