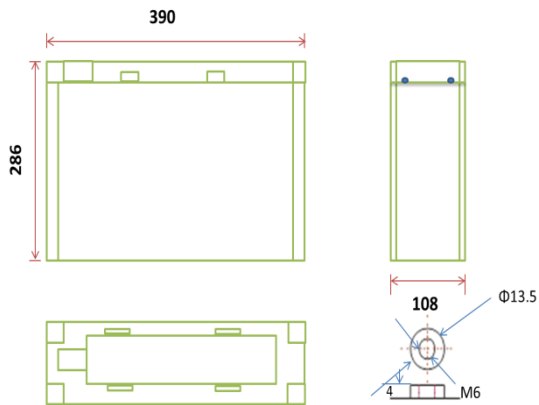


# ECO-FRIENDLY ADVANCE TECHNOLOGY BATTERY



## 12- EFSM -100, 12V 100Ah@20HR

### DIMENSION

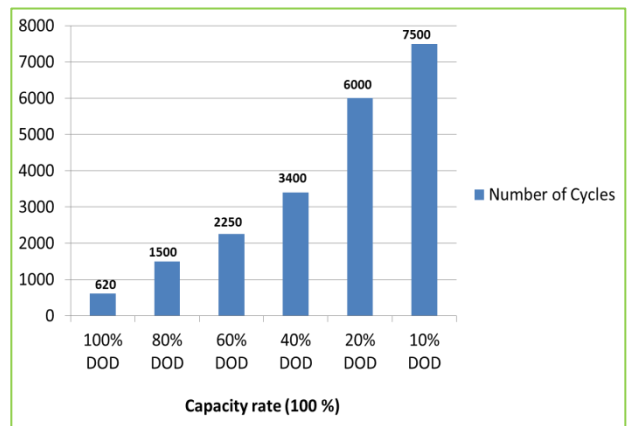


### SPECIFICATIONS

### DISCHARGE CURRENT & END DISCHARGE VOLTAGE

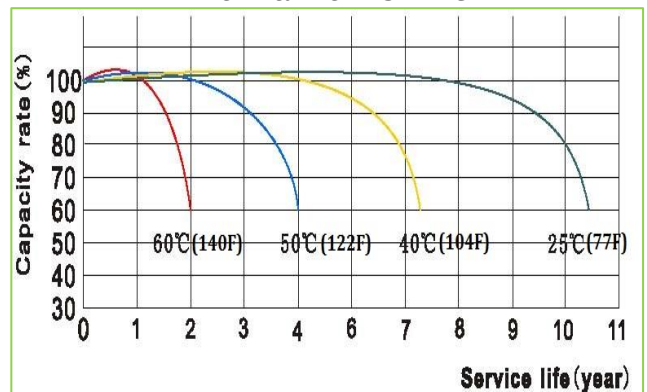
Discharge Current (A)	Final Discharge Voltage (V/Cell)
0.05C or below or intermittent discharge	11.4
0.05C of current close to it	11.1
0.1C of current close to it	10.8
0.2C of current close to it	10.5
0.2C-0.5C	10.2
0.5C-1C	9.6
1C-3C	9.0
>3C	7.8

### CYCLE LIFE GRAPH (25°C/77°F)



<b>Nominal Voltage</b>		<b>12V</b>
<b>Rated Capacity (20 hour rate)</b>		100AH
<b>Dimension</b>	Total Height (with terminals)	286 mm
	Height	286mm
	Length	390mm
	Width	108mm
<b>Weight</b>	Approx.	34.5 Kg (75.99Lbs)
<b>Capacity (77°F/25°C)</b>	10 hour rate (9.0A)	90AH
	5 hour rate (16.0A)	80AH
<b>Internal Resistance (77°F/25°C)</b>	Full Charged Battery	6.5 mΩ
<b>Self-Discharge (77°F/25°C)</b>	After 3 months Storage	95%
	After 6 months storage	85%
	After 12 months storage	80%
<b>Max Discharge Current (77°F/25°C)</b>	1000A(5S)	
<b>Terminal</b>	Standard	F9
	Optional	
<b>Charging (Constant Voltage)</b>	Cycle	14.4V-14.7V (77°F/25°C)
	Float	13.5V-13.8V (77°F/25°C)

### TEMPERATURE & FLOAT SERVICE LIFE



**CONSTANT CURRENT DISCHARGE CHARACTERISTICS UNITS AMPERES (25°C/77°F)**

**Time (Mins)**

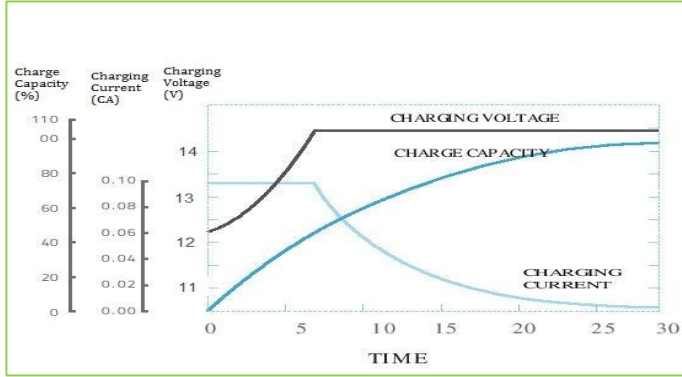
End Voltage per cell (V)	5	15	30	45	60	120	180	240	300	360	480	600	720	1200	1440
1.60	330.26	174.78	105.61	76.99	62.01	35.53	25.80	20.24	17.26	14.67	11.18	9.31	7.82	5.09	4.16
1.67	306.94	169.06	104.04	76.46	61.90	35.38	25.34	20.13	17.01	14.57	11.17	9.21	7.80	5.07	4.14
1.70	303.80	166.46	103.00	75.43	61.39	35.06	25.18	20.03	16.75	14.41	11.13	9.21	7.78	5.06	4.14
1.75	278.32	161.24	101.97	74.92	60.35	34.39	25.07	19.78	16.60	14.31	11.08	9.10	7.74	5.04	4.13
1.80	249.70	150.84	97.79	72.83	58.79	33.87	24.97	19.72	16.39	14.15	11.03	9.00	7.70	4.86	4.12
1.83	238.68	138.38	96.25	70.24	56.19	33.55	23.98	18.88	16.02	13.63	10.79	8.64	7.39	4.81	4.07
1.85	223.67	134.21	90.00	67.63	54.62	32.20	23.36	18.62	15.61	13.18	10.67	8.53	7.28	4.76	4.03

**DISCHARGE DATA WITH CONSTANT POWER UNITS: WATTS PER CELL (25°C/77°F)**

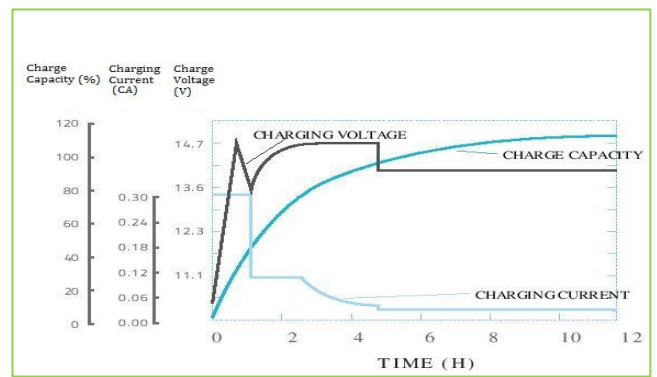
**Time (Mins)**

End Voltage per cell (V)	5	15	30	45	60	120	180	240	300	360	480	600	720	1200	1440
1.60	551.88	306.90	197.66	144.08	115.91	67.10	49.05	38.86	32.82	28.19	21.74	18.00	15.14	10.09	8.27
1.67	525.36	302.21	189.67	143.05	115.52	67.10	48.43	38.80	32.82	28.14	21.74	17.95	15.14	10.09	8.27
1.70	522.23	300.13	189.23	143.05	114.95	66.58	48.15	38.66	32.30	27.93	21.59	17.79	14.98	10.04	8.27
1.75	486.35	296.49	188.73	143.04	114.44	66.06	47.63	38.60	32.20	27.72	21.48	17.67	14.98	10.04	8.22
1.80	446.30	281.40	185.70	140.44	113.92	66.06	46.99	38.49	31.99	27.72	21.43	17.58	14.98	9.78	8.22
1.83	430.69	258.52	184.14	136.28	109.23	65.54	46.23	37.19	31.63	26.84	21.43	17.06	14.72	9.68	8.17
1.85	398.96	252.79	171.13	131.09	106.11	63.98	45.51	36.72	30.74	26.32	20.60	16.91	14.46	9.57	8.11

**FLOATING CHARGE CHARACTERISTICS (25°C/77°F)**

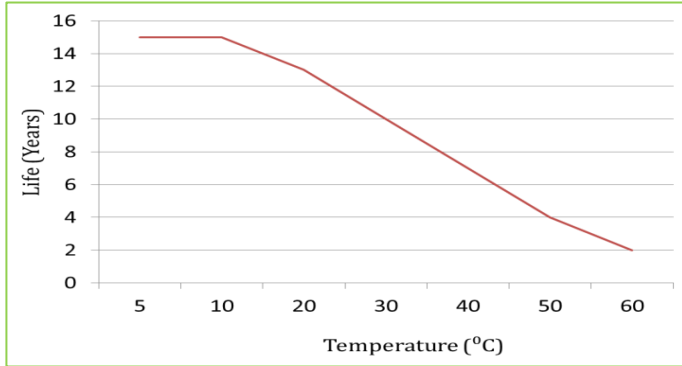


**CYCLE CHARGE CHARACTERISTIC (25°C/77°F)**

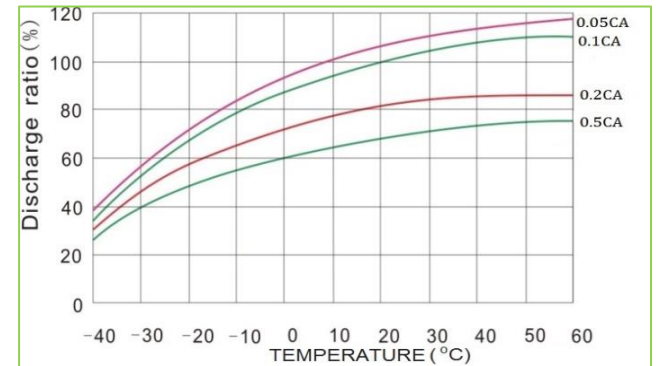


Soneil Chargers Recommended

**FLOAT SERVICE LIFE CURVE GRAPH**



**TEMPERATURE AND DISCHARGE CAPACITY**



“Specifications subject to change without notice “

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