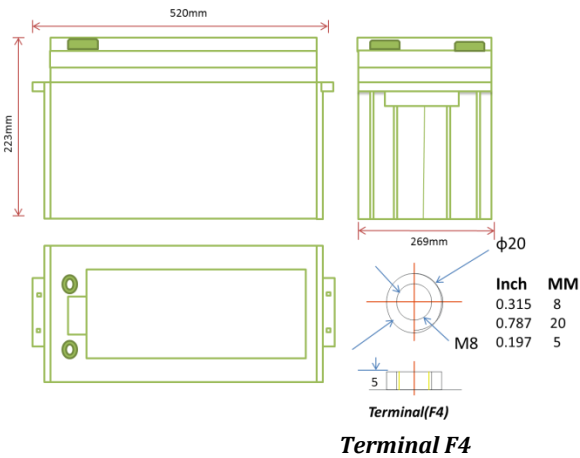


# ECO-FRIENDLY ADVANCE TECHNOLOGY BATTERY



## 12- EFSN -270, 12V 270Ah@20HR

### DIMENSION



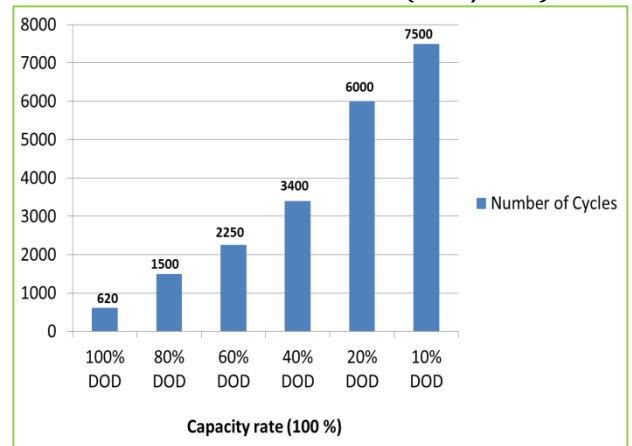
### DISCHARGE CURRENT & END DISCHARGE VOLTAGE

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

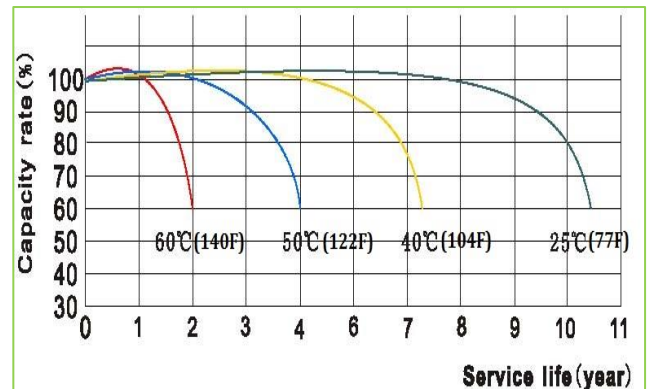
### SPECIFICATIONS

Nominal Voltage		12V
Rated Capacity (20 hour rate)		270AH
Dimension	Total Height (with terminals)	223 mm
	Height	223 mm
	Length	520 mm
	Width	269 mm
Weight	Approx.	70 Kg (154.5 Lbs.)
Capacity (77°F/25°C)	10 hour rate (25.0A)	250AH
	5 hour rate (43.0A)	215AH
Internal Resistance (77°F/25°C)	Full Charged Battery	2.8mΩ
Self-Discharge (77°F/25°C)	After 3 months Storage	95%
	After 6 months storage	85%
	After 12 months storage	80%
Max Discharge Current (77°F/25°C)	2500A(5S)	
Terminal	Standard	F4
	Optional	
Charging (Constant Voltage)	Cycle	14.4V-14.7V (77°F/25°C)
	Float	13.5V-13.8V (77°F/25°C)

### CYCLE LIFE GRAPH (25°C/77°F)



### TEMPERATURE & FLOAT SERVICE LIFE



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

Time (Mins)

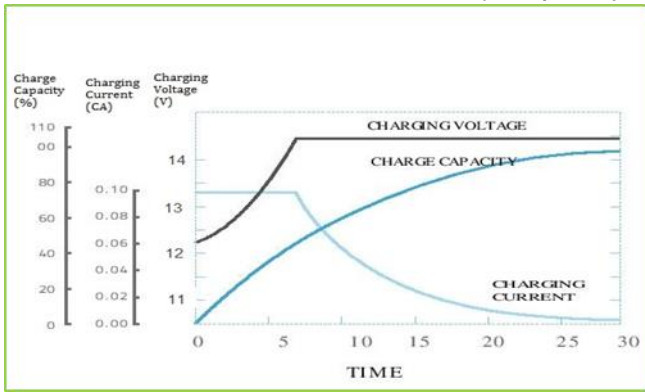
End Voltage per cell (V)	5	15	30	45	60	120	180	240	300	360	480	600	720	1200	1440
1.60	917.40	485.50	293.35	213.87	172.25	98.69	71.68	56.21	47.95	40.75	31.07	25.87	21.71	14.13	11.55
1.67	852.60	469.60	289.00	212.40	171.95	98.27	70.38	55.93	47.26	40.46	31.03	25.58	21.68	14.09	11.50
1.70	843.90	462.40	286.10	209.53	170.53	97.40	69.94	55.63	46.53	40.03	30.92	25.58	21.61	14.05	11.49
1.75	773.10	447.90	283.25	208.10	167.63	95.52	69.65	54.93	46.10	39.74	30.78	25.29	21.50	13.99	11.47
1.80	693.60	419.00	271.65	202.30	163.30	94.08	69.37	54.77	45.52	39.31	30.64	25.00	21.39	13.51	11.44
1.83	663.00	384.40	267.35	195.10	156.08	93.21	66.62	52.46	44.51	37.86	29.98	23.99	20.52	13.37	11.30
1.85	621.30	372.80	250.00	187.87	151.73	89.45	64.88	51.73	43.36	36.61	29.63	23.70	20.23	13.22	11.20

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

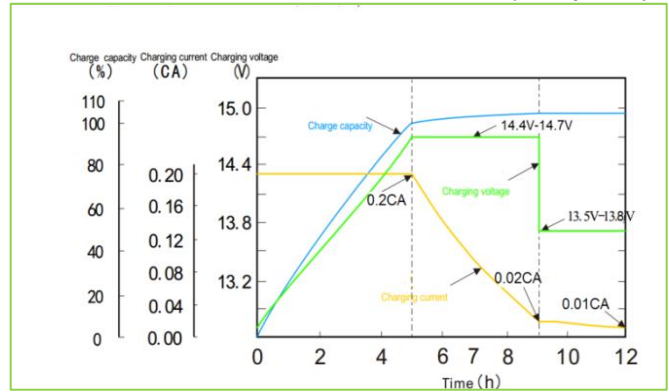
Time (Mins)

End Voltage per cell (V)	5	15	30	45	60	120	180	240	300	360	480	600	720	1200	1440
1.60	1532.99	852.49	549.06	400.23	321.97	186.39	136.25	107.93	91.17	78.31	60.40	49.99	42.05	28.03	22.97
1.67	1459.32	839.48	526.86	397.35	320.89	186.39	134.52	107.79	91.17	78.17	60.40	49.85	42.05	28.03	22.97
1.70	1450.65	833.70	525.63	397.35	319.30	184.95	133.74	107.39	89.73	77.59	59.96	49.41	41.61	27.89	22.97
1.75	1350.96	823.58	524.26	397.34	317.88	183.50	132.32	107.21	89.44	77.01	59.67	49.08	41.61	27.89	22.83
1.80	1239.73	781.67	515.82	390.11	316.43	183.50	130.54	106.92	88.86	77.01	59.53	48.84	41.61	27.16	22.83
1.83	1196.36	718.11	511.49	378.56	303.43	182.06	128.41	103.31	87.85	74.56	59.53	47.39	40.89	26.88	22.69
1.85	1108.22	702.21	475.36	364.13	294.76	177.72	126.43	102.01	85.39	73.11	57.22	46.96	40.16	26.59	22.54

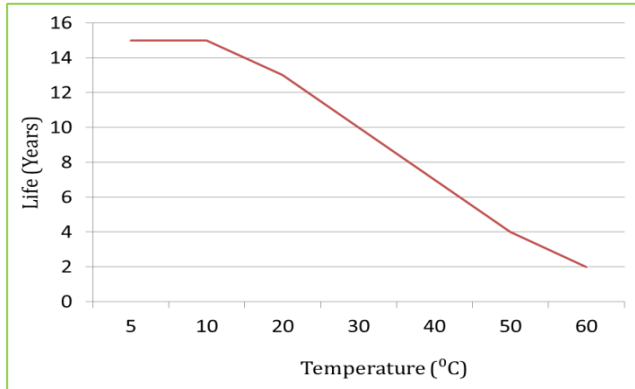
**FLOATING CHARGE CHARACTERISTICS (25°C/77°F)**



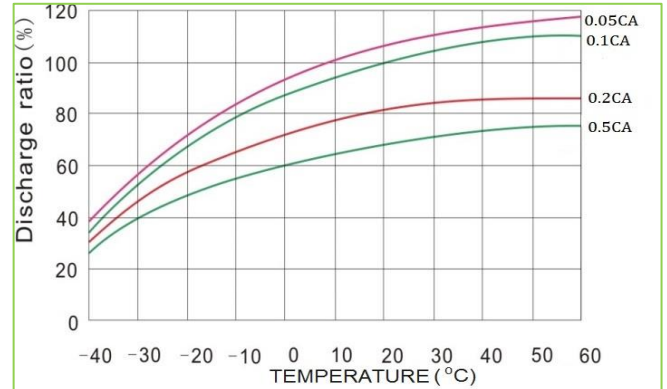
**CYCLE CHARGE CHARACTERISTIC (25°C/77°F)**



**FLOAT SERVICE LIFE CURVE GRAPH**



**Soneil Chargers Recommended TEMPERATURE AND DISCHARGE CAPACITY**



“Specifications subject to change without notice “

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