

EO SERIES-AGM Battery



EO129.0 (12V9.0AH)

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	9.0AH	
Dimensions	Length	151±2mm (5.95 inches)
	Width	65±1mm (2.56 inches)
	Container Height	93.5±1mm (3.68 inches)
	Total Height (with Terminal)	99±1mm (3.90 inches)
Approx Weight	Approx 2.30 kg (± % 3)	
Terminal	T2	
Container Material	ABS	
Rated Capacity	9.00 AH/0.450A	(20hr , 1.80V/cell,25°C/77°F)
	7.86 AH/0.786A	(10hr, 1.80V/cell,25°C/77°F)
	7.00 AH/1.40A	(5hr, 1.75V/cell,25°C/77°F)
	6.36AH/2.12A	(3hr, 1.75V/cell,25°C/77°F)
	5.84 AH/5.84A	(1hr, 1.60V/cell,25°C/77°F)
Max. Discharge Current	129A (5s)	
Internal Resistance	Approx 19mΩ	
Operating Temp.Range	Discharge : -15~50°C (5~122°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -15~40°C (5~104°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 2.58A.Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	EO series batteries may be stored for up to 6 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter. Self-discharge ratio less than 3% per month at 25°C(77°F).	



Applications

- ◆ All purpose
- ◆ Uninterruptable Power Supply (UPS)
- ◆ Electric Power System (EPS)
- ◆ Emergency backup power supply
- ◆ Emergency light
- ◆ Railway signal
- ◆ Aircraft signal
- ◆ Alarm and security system
- ◆ Electronic apparatus and equipment
- ◆ Communication power supply
- ◆ DC power supply
- ◆ Auto control system

Constant Current Discharge (Amperes) at 25 °C (77°F)

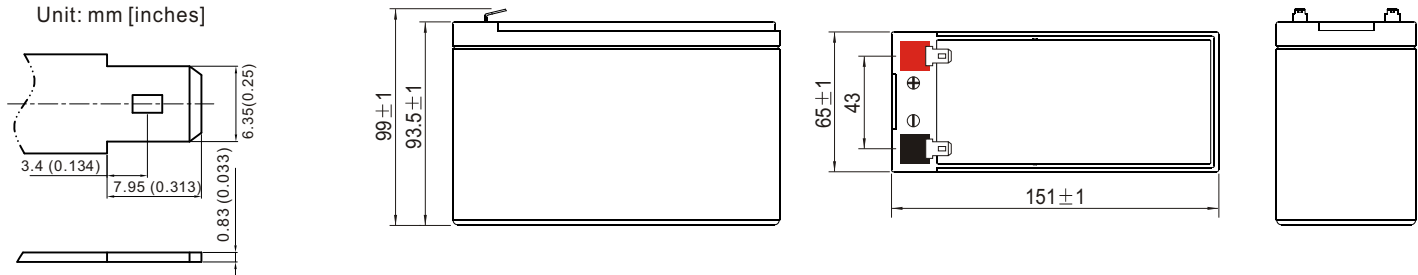
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	28.0	18.7	14.7	12.2	9.06	6.57	5.13	2.80	2.00	1.58	1.32	1.14	0.913	0.764	0.417
1.80V/cell	31.5	20.5	15.9	12.9	9.46	6.81	5.32	2.89	2.06	1.62	1.36	1.18	0.941	0.786	0.450
1.75V/cell	34.6	21.6	16.9	13.6	9.83	7.05	5.50	2.98	2.12	1.68	1.40	1.21	0.979	0.807	0.452
1.70V/cell	36.8	22.8	17.6	14.0	10.2	7.28	5.64	3.07	2.18	1.72	1.44	1.24	0.988	0.822	0.458
1.65V/cell	38.5	23.6	18.2	14.5	10.5	7.44	5.74	3.12	2.22	1.76	1.47	1.26	1.01	0.830	0.460
1.60V/cell	39.7	24.5	18.5	14.8	10.7	7.57	5.84	3.17	2.25	1.78	1.49	1.28	1.02	0.838	0.463

Constant Power Discharge (Watts) at 25 °C (77°F)

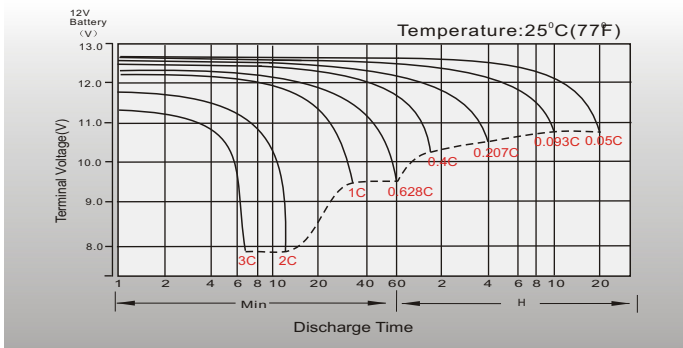
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	51.8	34.9	27.6	23.0	17.2	12.6	9.90	5.42	3.89	3.09	2.59	2.24	1.80	1.51	0.827
1.80V/cell	57.3	37.7	29.5	24.2	17.8	13.0	10.2	5.57	4.00	3.15	2.65	2.31	1.85	1.55	0.851
1.75V/cell	62.1	39.3	31.0	25.2	18.4	13.3	10.5	5.73	4.09	3.25	2.73	2.38	1.92	1.59	0.854
1.70V/cell	65.2	41.0	32.0	25.8	19.0	13.7	10.7	5.88	4.21	3.34	2.80	2.43	1.94	1.62	0.863
1.65V/cell	67.0	41.7	32.6	26.4	19.4	13.9	10.9	5.96	4.27	3.40	2.85	2.46	1.97	1.63	0.868
1.60V/cell	68.1	42.8	32.9	26.7	19.6	14.0	11.0	6.02	4.30	3.42	2.87	2.49	1.98	1.64	0.872

Specifications subject to change without notice.

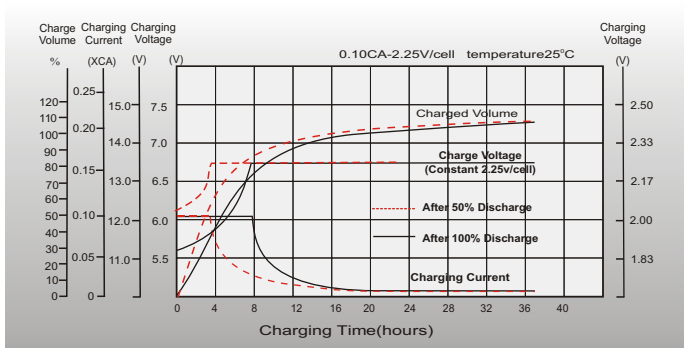
T2 Terminal
Unit: mm [inches]



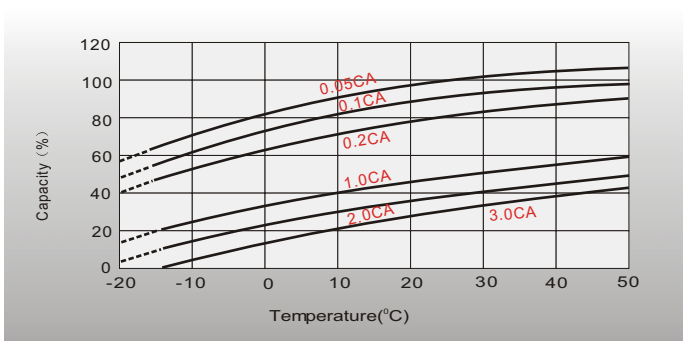
Discharge Characteristics



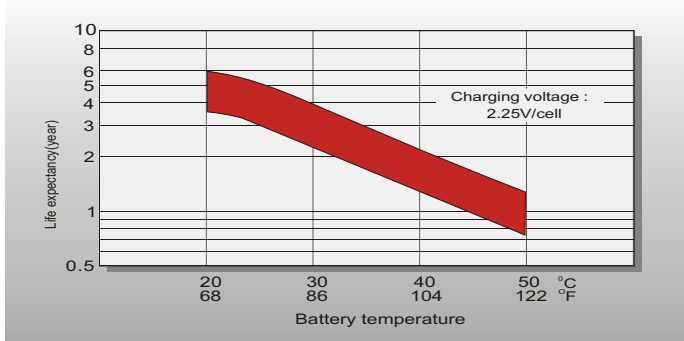
Float Charging Characteristics



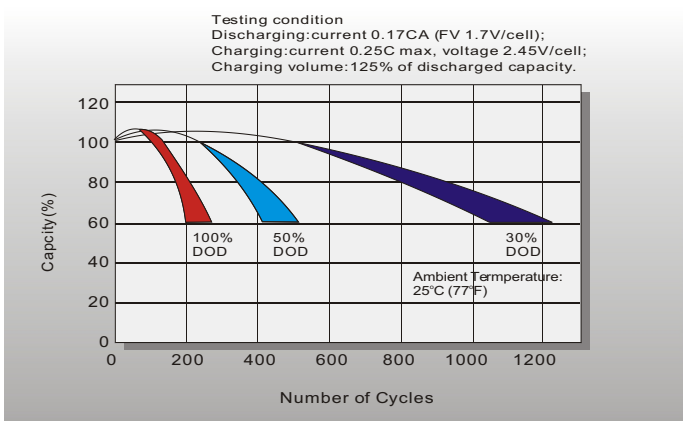
Temperature Effects in Relation to Batter Capacity



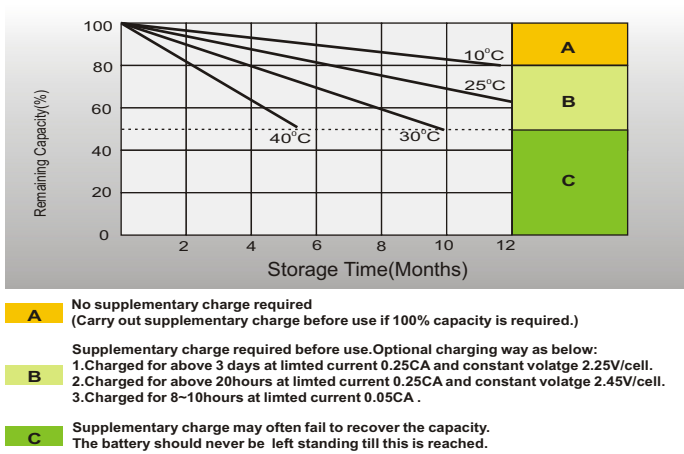
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics



Sales Office



ZAFER ENERGY SYSTEMS IND.&FOREIGN TRADE CO.LTD.

Head Office

Beylikdüzü O.S.B Mermerciler San. Sitesi
9. Cadde No:18 Beylikdüzü
İSTANBUL/TURKEY
TEL : +90(212)632 0535
FAX : +90(212)632 0587
WEB : <http://www.zaferbattery.com>

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