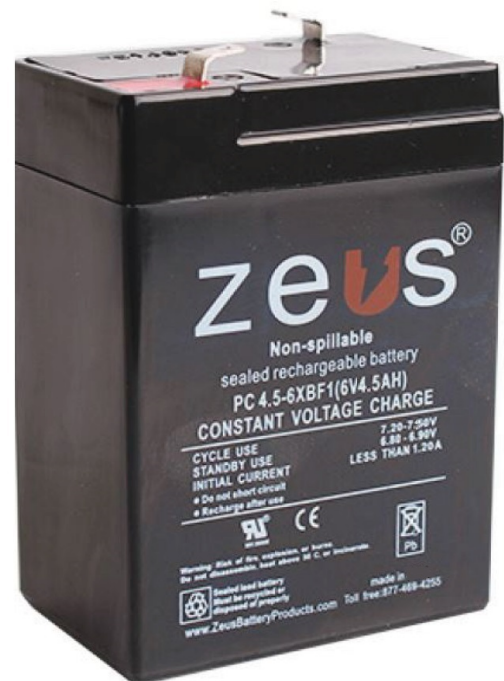


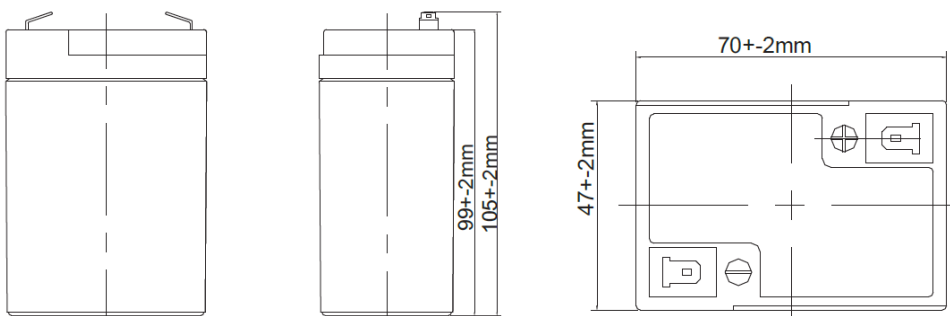
Capacity (@25°C)	20HR = 4.5AH 10HR = 4.3AH 1HR = 2.9AH to 9.0V
Operating Temperature Range	Charge = -15°C to +50°C Discharge = -40°C to +60°C Storage = -20°C to +60°C
Approx. Weight	0.67kg
Internal Resistance	Fully charged at 25°C : ≤ 26mΩ
Self Discharge	3% per month at (25°C)
Capacity Affected by Temp. (20HR)	40°C = 102% 25°C = 100% 0°C = 85% -15°C = 65%
Charge Voltage (25°C)	Cycle Use = 7.2-7.35V (-12mV/°C) Max Current = 1.2A Float Use = 6.75-6.9V (-9mV/°C)
Dimensions (Nominal)	Length: 70mm (2.76 in.) Width: 47mm (1.85 in.) Height: 99mm (3.90 in.) Total Height: 105mm (4.13 in.)

- Completely sealed, maintenance-free, low self-discharge
- State of the art AGM and grid alloy formula technology
- Non-spillable, stable quality and high reliability with excellent re-charging performance
- Floating and standby use up to: 8 years
- Cycle use: Up to 260 cycles at 100% DoD
- Cycle use: Up to 500 Cycles at 50% DoD
- Container and Cover Material – ABS UL94-HB
- Transportation - D.O.T., I.A.T.A. & F.A.A.



APPLICATIONS

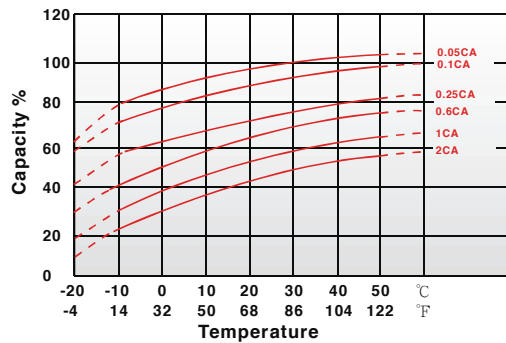
Multipurpose	Alarm & Security	DC Power Supply
Telecommunic	System Comm.	Auto Control
ations UPS	Power Supply	System Traffic
Medical	Elec. Power	Control Signaling
Equipment	System (EPS)	Emergency
Backup Power	Emergency	Lighting



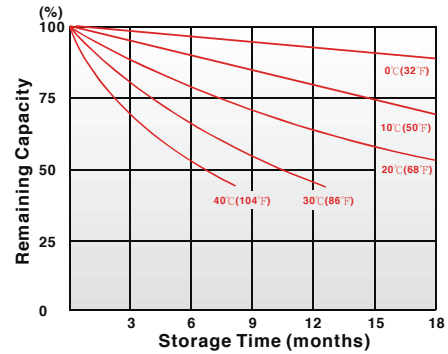
Terminal Type

- F1**  0.187" x 0.032"
quick disconnect tabs
- F2**  0.250" x 0.032"
quick disconnect tabs

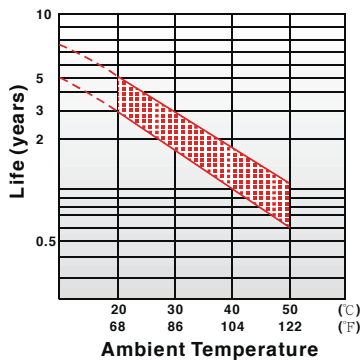
■ Effect of Temperature on Capacity 25°C (77°F)



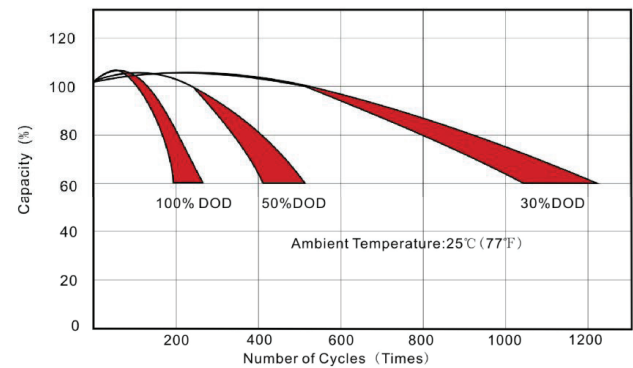
■ Capacity Retention Characteristic



■ Trickle (or Float) Service Life



■ Cycle Service Life



Regular Charge / Float Charge / Storage

- Charging voltage temperature compensation needs to be applied when temperature is below 0°C and above +45°C.
- Charging in temperatures below 0°C, the charge current should not exceed 0.1C as the core battery temperature can increase rapidly and damage the battery.
- During floating charge or when in storage, the life of the battery is cut in half for every 8°C temperature rise over 25°C.

Discharge

- Discharging at elevated temperatures improves performance of the battery yet shortens its life due to accelerated aging.
- Low temperature affects the battery internal resistance and lowers its capacity.
- The battery will operate in temperature lower than -20°C when fully charged.
- The battery provides 100% specified capacity at 25°C. At -40°C the battery will deliver 35% of its stated capacity @10HR discharge rate and 10% of its stated capacity @1HR discharge rate.

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

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	8.95	7.11	5.57	3.62	2.14	1.35	1.04	0.85	0.71	0.48	0.40	0.21
1.80V/cell	11.27	8.70	6.71	4.20	2.38	1.47	1.13	0.92	0.77	0.52	0.42	0.22
1.75V/cell	12.83	9.61	7.27	4.39	2.48	1.53	1.16	0.95	0.79	0.53	0.43	0.23
1.70V/cell	14.33	10.50	7.81	4.60	2.57	1.58	1.20	0.97	0.81	0.53	0.43	0.23
1.67V/cell	15.88	11.40	8.34	4.81	2.66	1.63	1.23	1.00	0.83	0.54	0.44	0.23
1.60V/cell	17.07	12.07	8.72	5.01	2.75	1.69	1.27	1.03	0.85	0.55	0.44	0.23

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

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.85V/cell	16.35	13.22	10.46	6.91	4.13	2.62	2.03	1.67	1.40	0.96	0.78	0.42
1.80V/cell	20.18	15.90	12.43	7.95	4.58	2.84	2.19	1.79	1.50	1.02	0.83	0.44
1.75V/cell	22.50	17.26	13.28	8.23	4.74	2.93	2.25	1.84	1.53	1.03	0.84	0.45
1.70V/cell	24.57	18.52	14.06	8.52	4.89	3.03	2.31	1.88	1.56	1.04	0.85	0.45
1.67V/cell	26.62	19.76	14.79	8.83	5.02	3.11	2.36	1.92	1.60	1.06	0.86	0.46
1.60V/cell	28.30	20.51	15.25	9.10	5.17	3.20	2.42	1.97	1.64	1.07	0.87	0.46