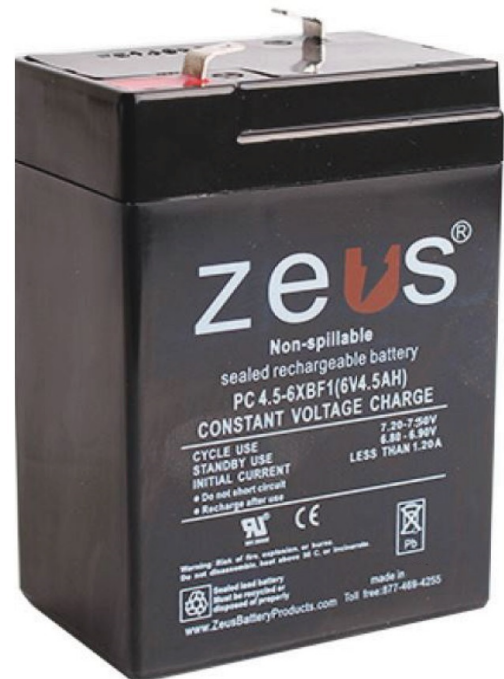


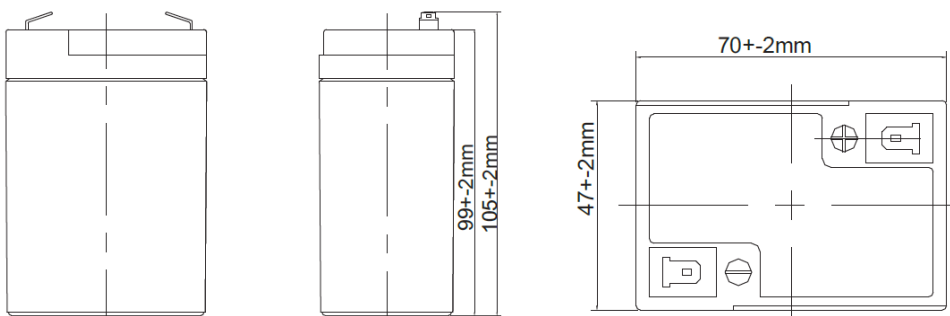
Capacity (@25°C)	20HR = 4.5AH 10HR = 4.3AH 1HR = 2.9AH to 9.0V
Operating Temperature Range	Charge = -15°C to +50°C Discharge = -40°C to +60°C Storage = -20°C to +60°C
Approx. Weight	0.67kg
Internal Resistance	Fully charged at 25°C : ≤ 26mΩ
Self Discharge	3% per month at (25°C)
Capacity Affected by Temp. (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

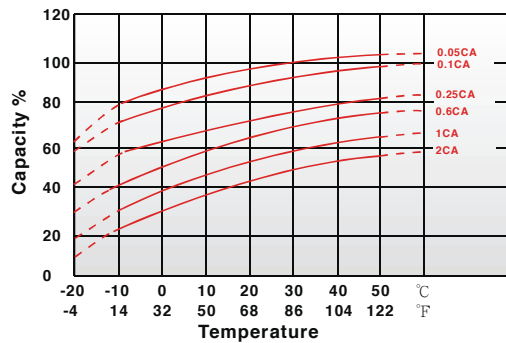
Multipurpose	Alarm & Security	DC Power Supply
Telecommunications UPS	System Comm.	Auto Control
Medical Equipment	Power Supply	System Traffic
Backup Power	Elec. Power	Control Signaling
	System (EPS)	Emergency
	Emergency	Lighting



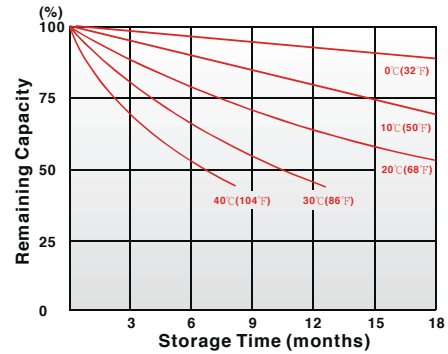
Terminal Type

F1  0.187" x 0.032" quick disconnect tabs

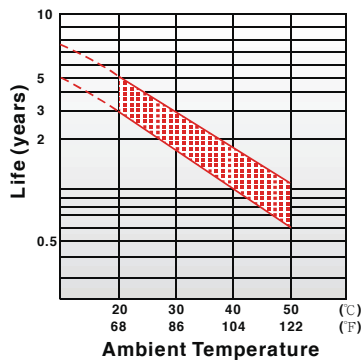
■ Effect of Temperature on Capacity 25°C (77°F)



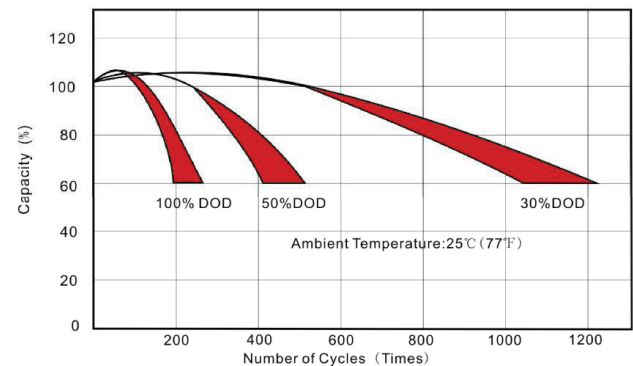
■ Capacity Retention Characteristic



■ 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