

HR1235W 12V9AH

VALVE REGULATED LEAD ACID BATTERY



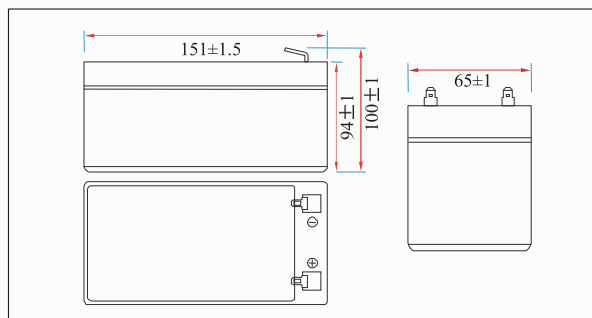
CHARACTERISTICS

Capacity (25 °C)	15min. rate	35 Watts/cell /1.67V
	20HR	9Ah/10.5V
Terminal type		T2/T1
Internal resistance (Fully charged, 25 °C)		Approx. 19mΩ
Capacity affected by temperature (10HR)	40°C	102%
	25 °C	100%
	0°C	85%
	-15 °C	65%
Self- discharge (25°C)	3 months	Remaining Capacity:91%
	6 months	Remaining Capacity:82%
	12 months	Remaining Capacity:65%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	Discharge	-15°C~50°C (5°F~122°F)
	Charge	-10°C~50°C (14°F~122°F)
	Storage	-20°C~50°C (-4°F~122°F)
Float charging voltage (25°C)		13.60 to 13.80V Temperature compensation: -18mV/°C/Block
Cyclic charging voltage (25°C)		14.50 to 15.00V Temperature compensation: -30mV/°C Block
Maximum charging current		2.8A
Maximum discharge current		135A (5 sec.)
Short circuit current		375A
Design life	8 years for floating (25°C)	
	Eurobat (20°C): 6-9 years, General Purpose	

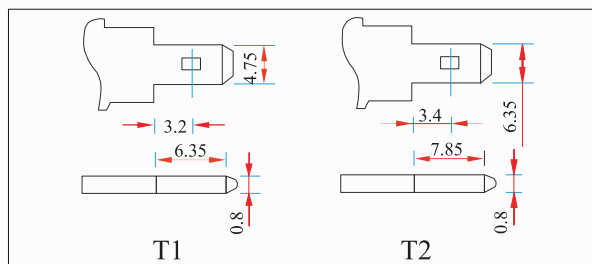
SPECIFICATIONS

Nominal Voltage		12V (6 cells per unit)
Rated capacity (15min. rate)		35 Watts/cell /1.67V
Dimensions	Length	151±1.5mm (5.94inch)
	Width	65±1mm (2.56inch)
	Height	94±1mm (3.70inch)
	Total Height	100±1mm (3.90inch)
Approx. Weight		2.73kg (6.02lbs)±4%

OUTER DIMENSIONS (MM)



TERMINAL TYPE (MM)



UPS
SYSTEM



GENERAL
PURPOSE



EMERGENCY
LIGHTING



FIRE &
SECURITY



MEDICAL

CONSTRUCTION

Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper

CONSTANT CURRENT DISCHARGE CHARACTERISTICS UNIT: AMPERE/CELL (AT 25°C, 77°F)

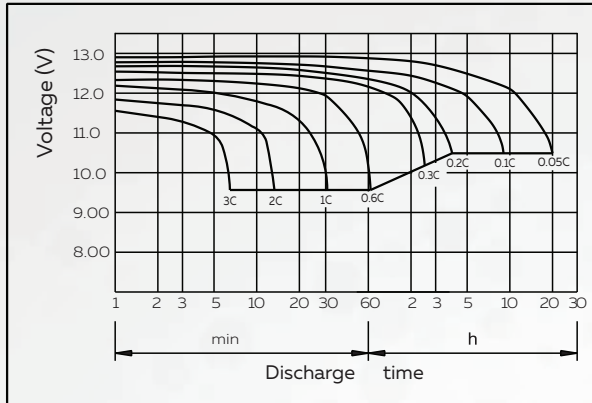
F.V/Time	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	38.4	23.7	18.3	14.5	9.83	7.28	5.95	3.31	2.35	1.89	1.62
1.67V/cell	36.7	22.6	17.7	13.9	9.51	7.04	5.80	3.28	2.33	1.87	1.61
1.70V/cell	35.7	22.0	17.2	13.6	9.34	6.91	5.72	3.26	2.32	1.87	1.60
1.75V/cell	34.2	21.1	16.6	13.2	9.11	6.75	5.60	3.21	2.30	1.85	1.59
1.80V/cell	32.3	19.9	15.8	12.5	8.78	6.50	5.43	3.13	2.23	1.80	1.55

CONSTANT POWER DISCHARGE CHARACTERISTICS UNIT: WATT/CELL (AT 25°C, 77°F)

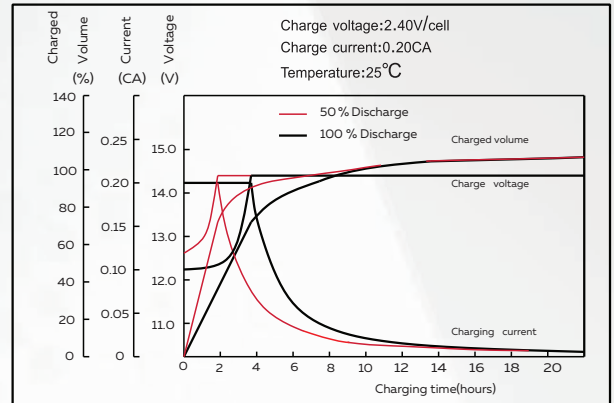
F.V/Time	5min	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h
1.60V/cell	73.8	45.9	36.3	28.7	19.5	14.4	11.8	6.58	4.72	3.80	3.27
1.67V/cell	70.5	43.9	35.0	27.6	18.8	13.9	11.5	6.52	4.68	3.77	3.24
1.70V/cell	68.6	42.7	34.1	27.0	18.5	13.7	11.3	6.48	4.66	3.75	3.22
1.75V/cell	65.7	40.9	33.0	26.1	18.0	13.4	11.1	6.39	4.63	3.73	3.20
1.80V/cell	62.0	38.6	31.2	24.7	17.4	12.9	10.8	6.22	4.49	3.61	3.11

Note: The above characteristics data can be obtained within three charge or discharge cycles.

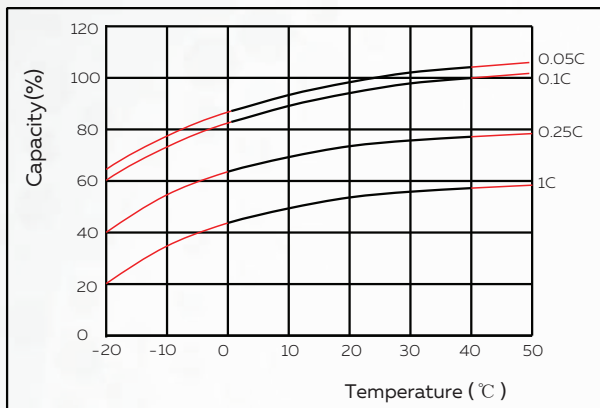
DISCHARGE CHARACTERISTICS (25 °C)



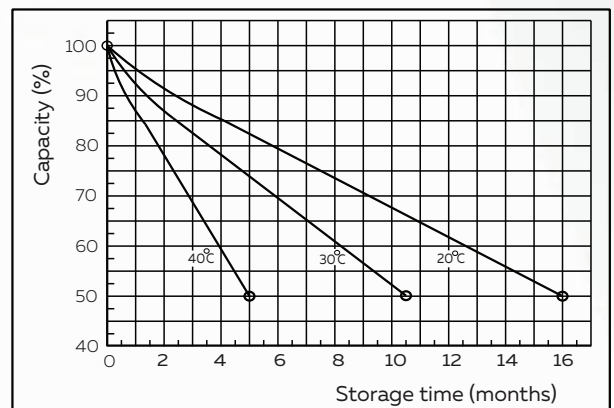
CHARGING CHARACTERISTICS (25 °C)



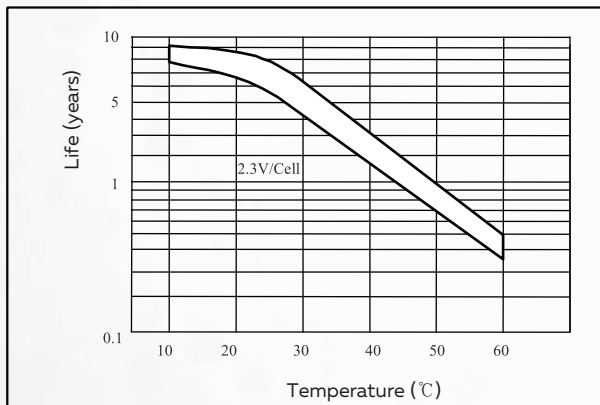
TEMPERATURE EFFECTS ON CAPACITY



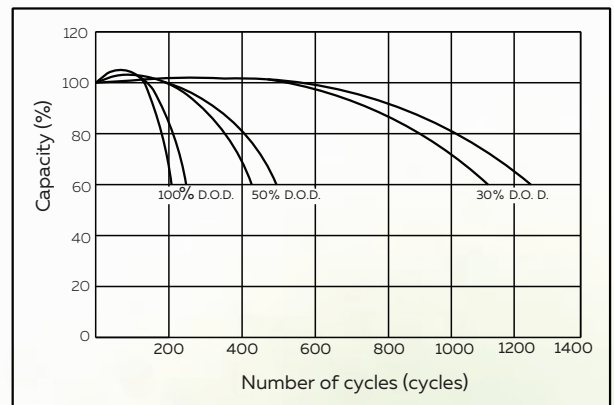
SELF-DISCHARGE CHARACTERISTICS



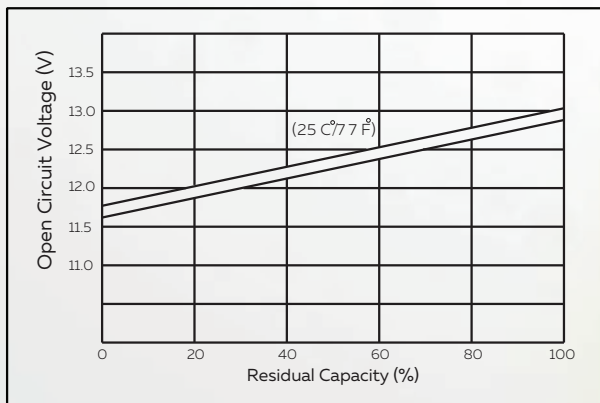
FLOATING LIFE ON TEMPERATURE



CYCLE LIFE ON D.O.D (25 °C)



THE RELATIONSHIP FOR OCV AND CAPACITY (25 °C)



THE RELATIONSHIP FOR CHARGING VOLTAGE AND TEMPERATURE

