



LIFETIME BATTERY

VALVE REGULATED SEALED LEAD ACID BATTERIES

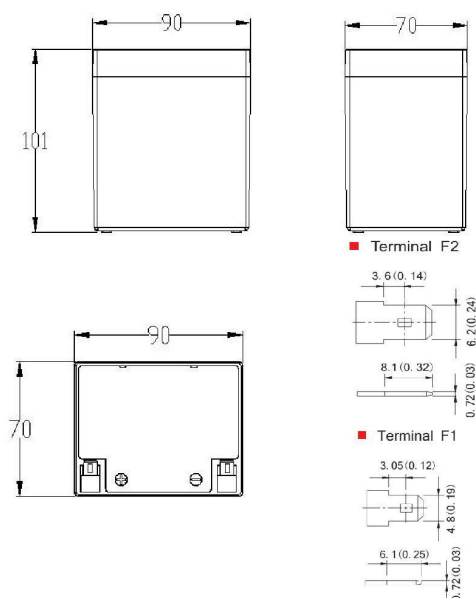
HR SERIES
12005(12V5AH/20HR)

Specifications

Nominal Voltage	12V	
Nominal Capacity(20hr)	5AH	
Dimension	Length	90±2mm(3.54inch)
	Width	70±2mm(2.76inch)
	Height	101±2mm(3.98inch)
	Total Height	105±2mm(4.13inch)
Approx Weight	Approx. 1.80kg(+/-5%)	
Terminal Type	F1/F2	
container Material	ABS(UL-94HB)	
Internal Resistance	Approx. 25mΩ	
Rated Capacity	5.00AH	(20hr, 1.70V/cell, 25°C/77°F)
	4.80AH	(10hr, 1.75V/cell, 25°C/77°F)
	4.50AH	(5hr, 1.75V/cell, 25°C/77°F)
	4.00AH	(3hr, 1.70V/cell, 25°C/77°F)
	3.20AH	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	105A(5S)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Charge Current Less Than 0.25CA	
	14.1V~14.7V@25°C(77°F)Temp. Coefficient -30mV/°C	
Floating Use	13.5V~13.8V@25°C(77°F)Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C	103%
	25°C	100%
	0°C	86%
	-15°C	65%
Self-discharge	3 month	Remaining capacity: 91%
	6 month	Remaining capacity: 82%
	12month	Remaining capacity: 65%



Dimensions

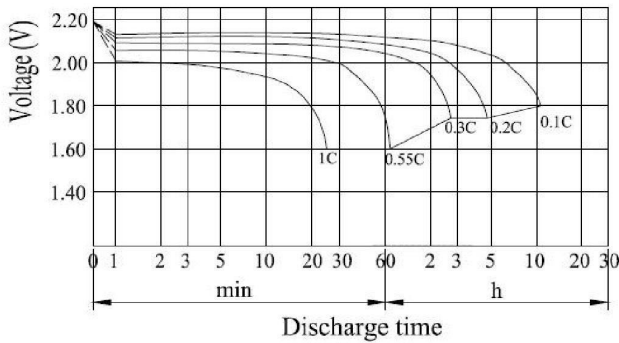
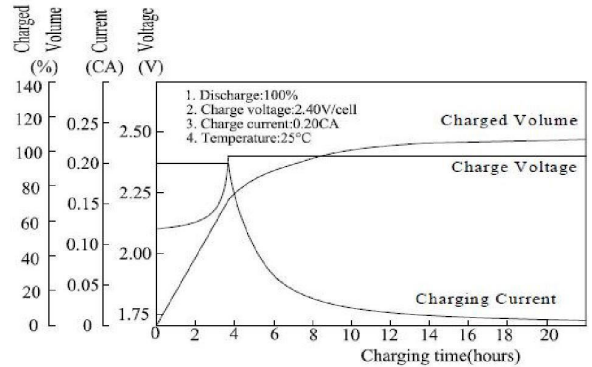
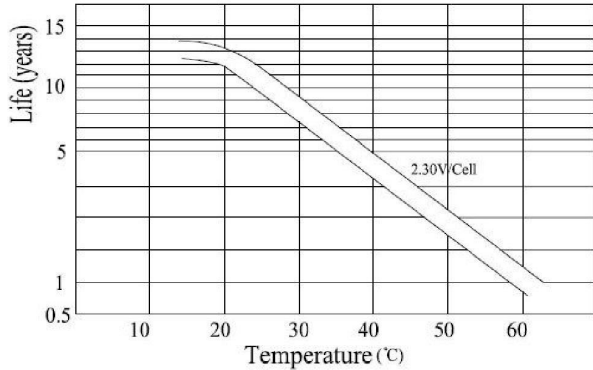
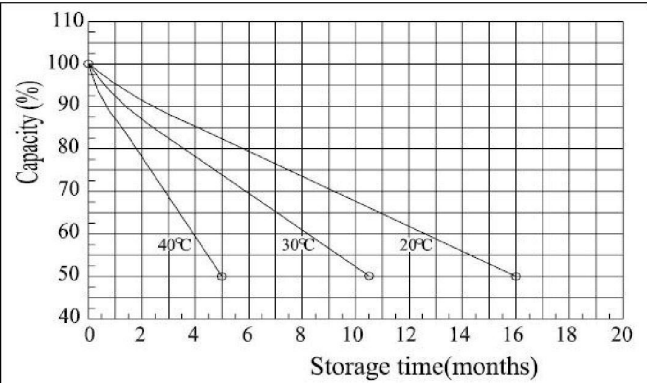
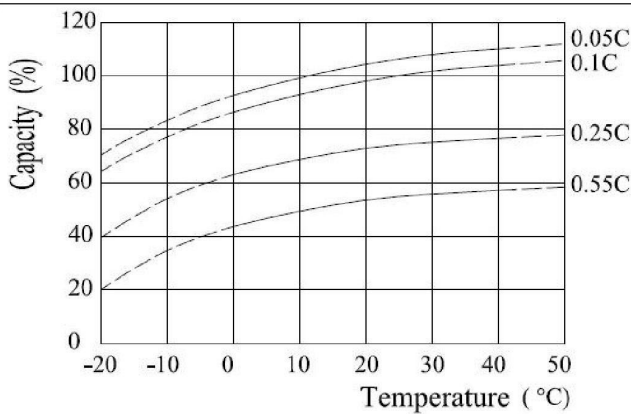


Constant Power Discharge at 25°C(77°F)

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.80V/cell	35.3	25.3	20.1	12.1	6.92	3.71	3.06	2.34	1.83	1.45	0.93	0.48
1.75V/cell	36.0	25.8	20.5	12.3	7.05	3.79	3.12	2.38	1.86	1.48	0.94	0.49
1.70V/cell	37.1	26.6	21.1	12.7	7.27	3.90	3.22	2.46	1.92	1.52	0.97	0.50
1.67V/cell	38.5	27.6	22.0	13.2	7.54	3.74	3.34	2.55	1.99	1.58	1.01	0.50
1.60V/cell	40.7	29.2	23.2	13.9	7.97	4.28	3.53	2.70	2.09	1.67	1.04	0.50

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

F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	6h	10h	20h
1.80V/cell	18.3	13.1	10.4	6.25	3.40	1.92	1.43	1.15	0.90	0.80	0.47	0.24
1.75V/cell	18.6	13.4	10.6	6.36	3.47	1.96	1.45	1.17	0.91	0.81	0.48	0.25
1.70V/cell	19.2	13.8	10.9	6.56	3.57	2.02	1.50	1.21	0.94	0.83	0.49	0.25
1.67V/cell	19.9	14.3	11.4	6.81	3.71	2.09	1.56	1.26	0.98	0.87	0.51	0.25
1.60V/cell	21.0	15.1	11.5	7.20	3.92	2.21	1.64	1.33	0.99	0.89	0.52	0.25

Discharge Characteristics

Float Charging Characteristics

Floating Life on Temperature

Self Discharge Characteristics (25°C(77°F))

Temperature Effects in Relation to Battery Capacity

Cycle Life Relation to Depth of Discharge
