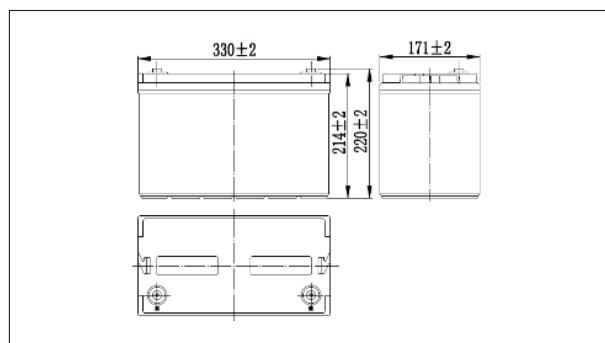


HR12390W-FR (12V390 Watts/cell)

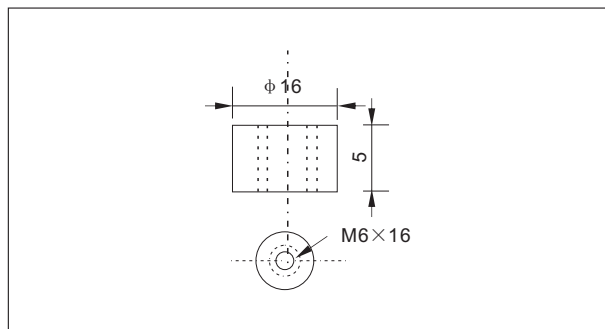
Specifications

Nominal Voltage		12V
Number of cell		6 cells
Rated capacity(15min.rat)		390 Watts/cell
Dimensions	Length	330±2mm(12.99inch)
	Width	171±2mm(6.73inch)
	Height	214±2mm(8.43inch)
	Total Height	220±2mm(8.66inch)
Approx. Weight		32.7kg(72.1lbs)±3%

Outer dimensions (mm)



Terminal Type (mm)



Construction

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

Constant Current Discharge Characteristics Unit:A(25℃,77°F)

F.V/Time	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h	6h
1.60V/cell	255	208	167	118	88.0	71.8	38.4	27.5	22.2	19.3	16.5
1.67V/cell	243	202	160	114	85.2	70.0	38.0	27.3	22.0	19.1	16.3
1.70V/cell	237	196	157	112	83.6	68.9	37.8	27.2	21.9	19.0	16.3
1.75V/cell	227	189	151	110	81.6	67.6	37.2	27.0	21.7	18.9	16.2
1.80V/cell	214	179	143	105	78.6	65.5	36.3	26.2	21.1	18.3	15.7

Constant Power Discharge Characteristics Unit:W(25℃,77°F)

F.V/Time	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h	6h
1.60V/cell	479	402	322	228	170	139	74.8	54.2	43.7	38.2	32.7
1.67V/cell	457	390	309	221	164	135	74.2	53.7	43.3	37.8	32.4
1.70V/cell	445	378	303	217	161	133	73.7	53.5	43.1	37.7	32.2
1.75V/cell	426	365	292	211	157	130	72.6	53.2	42.8	37.4	32.0
1.80V/cell	402	346	277	204	152	126	70.8	51.6	41.5	36.3	31.1

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

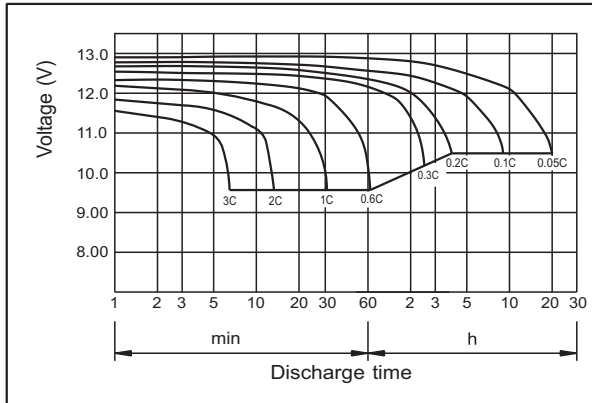


Characteristics

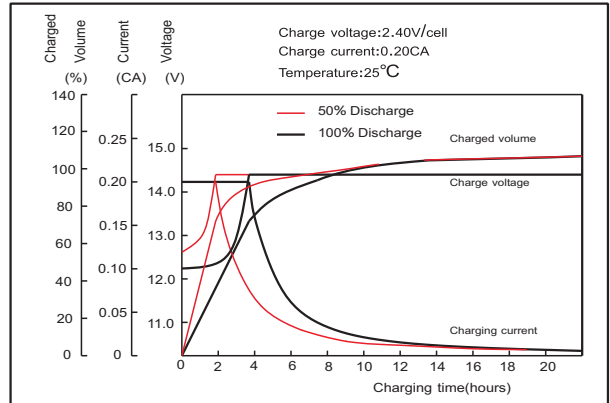
Capacity(10HR,25℃)		110Ah
Capacity(15min.rate,25℃)		390 Watts/cell
Terminal type		T16A
Internal resistance (Fully charged,25℃)		Approx.4m Ω
Capacity affected by temperature (10HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (25℃)	3month	Remaining Capacity:91%
	6month	Remaining Capacity:82%
	12month	Remaining Capacity:65%
Nominal operating temperature		25℃±3℃(77°F±5°F)
Operating temperature range	Discharge	-15℃~50℃(5°F~122°F)
	Charge	-10℃~50℃(14°F~122°F)
	Storage	-20℃~50℃(-4°F~122°F)
Float charging voltage(25℃)		13.50 to 13.80V Temperature compensation: -18mV/℃
Cyclic charging voltage(25℃)		14.50 to 15.00V Temperature compensation: -30mV/℃
Maximum charging current		33A
Terminal material		Copper
Maximum discharge current		800A(5 sec.)
Designed floating life(20℃)		10years

HR12390W-FR (12V390 Watts/cell)

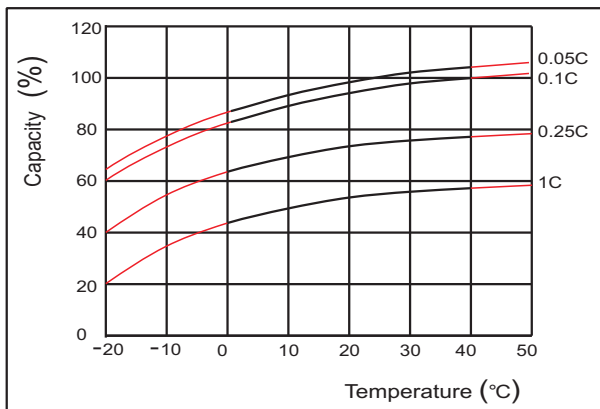
Discharge characteristics(25°C)



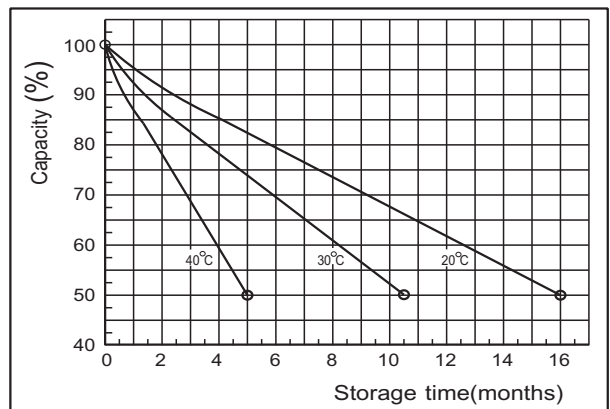
Charging characteristics (25°C)



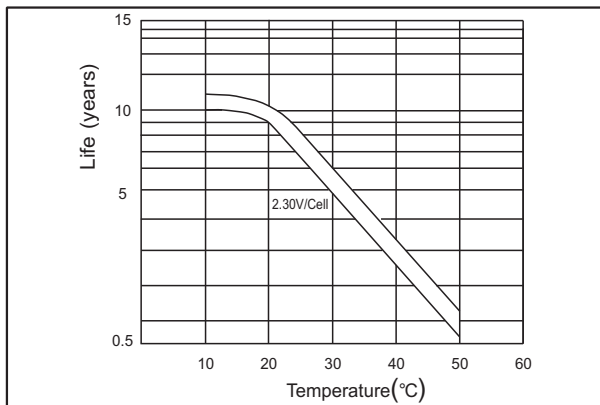
Effect of Temperature on Capacity



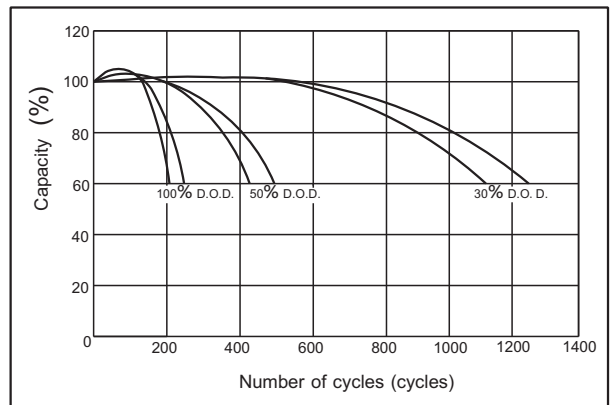
Self-discharge characteristics



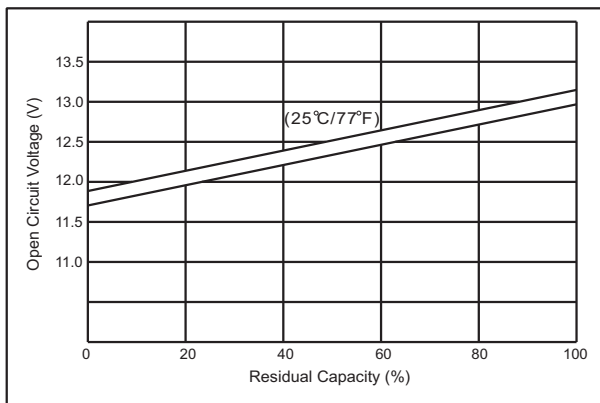
Floating Life on Temperature



Cycle service Life on D.O.D (25°C)



The relationship for OCV and Capacity (25°C)



The relationship for Charging voltage and Temperature

