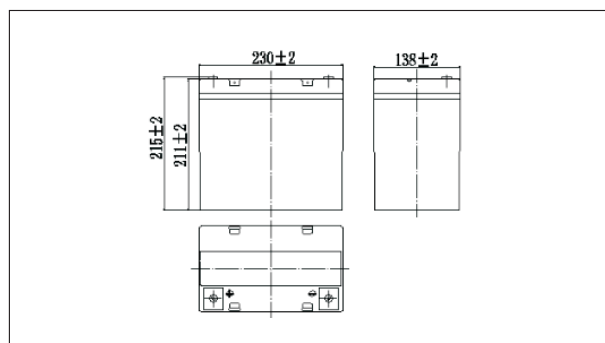


HR12200W-FR (12V200 Watts/cell)

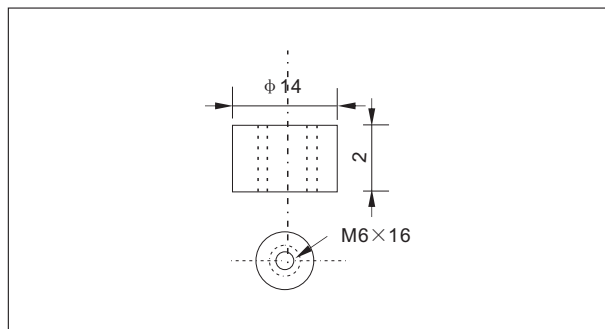
Specifications

Nominal Voltage		12V
Number of cell		6 cells
Rated capacity(15min.rat)		200 Watts/cell
Dimensions	Length	230±2mm(9.06inch)
	Width	138±2mm(5.43inch)
	Height	211±2mm(8.31inch)
	Total Height	215±2mm(8.46inch)
Approx.Weight		17.3kg(38.1lbs)±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	131	107	85.5	60.6	45.1	36.8	20.1	14.4	11.6	10.1	8.64
1.67V/cell	125	104	82.1	58.6	43.7	35.9	19.9	14.3	11.5	10.0	8.56
1.70V/cell	122	101	80.4	57.6	42.9	35.4	19.8	14.2	11.5	9.97	8.53
1.75V/cell	116	97.1	77.7	56.2	41.8	34.7	19.5	14.1	11.4	9.90	8.47
1.80V/cell	110	92.0	73.6	54.1	40.3	33.6	19.0	13.7	11.0	9.60	8.22

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	246	206	165	117	87.1	71.1	39.2	28.4	22.9	20.0	17.1
1.67V/cell	235	200	158	113	84.3	69.3	38.8	28.2	22.7	19.8	17.0
1.70V/cell	228	194	155	111	82.8	68.2	38.6	28.0	22.6	19.7	16.9
1.75V/cell	219	187	150	108	80.8	66.9	38.0	27.8	22.4	19.6	16.8
1.80V/cell	206	177	142	104	77.8	64.8	37.1	27.0	21.8	19.0	16.3

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

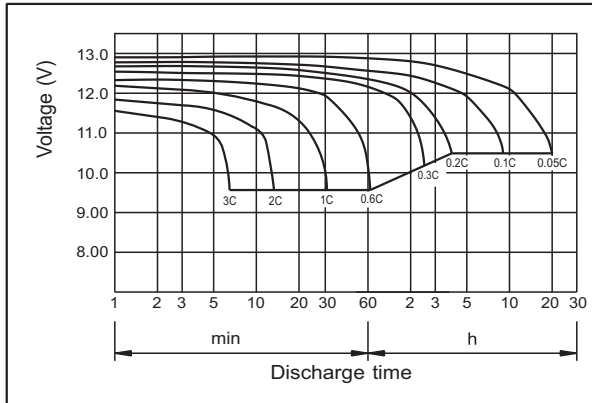


Characteristics

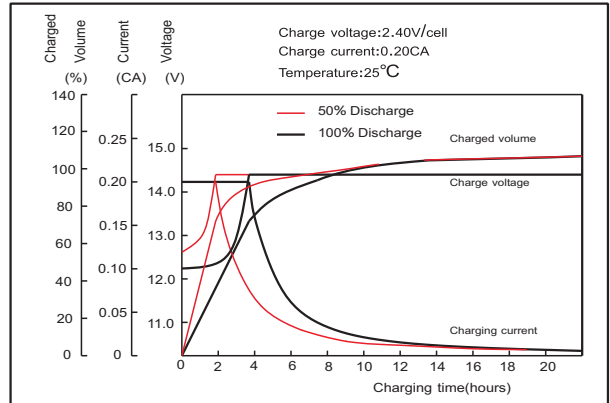
Capacity(10HR,25℃)		55Ah
Capacity(15min.rate,25℃)		200 Watts/cell
Terminal type		T14
Internal resistance (Fully charged,25℃)		Approx.6.5m Ω
Capacity affected by temperature (10HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (25℃)	3month	Remaining Capacity:91%
	6month	Remaining Capacity:82%
	12month	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		16.5A
Terminal material		Copper
Maximum discharge current		550A(5 sec.)
Designed floating life(20℃)		10years

HR12200W-FR (12V200 Watts/cell)

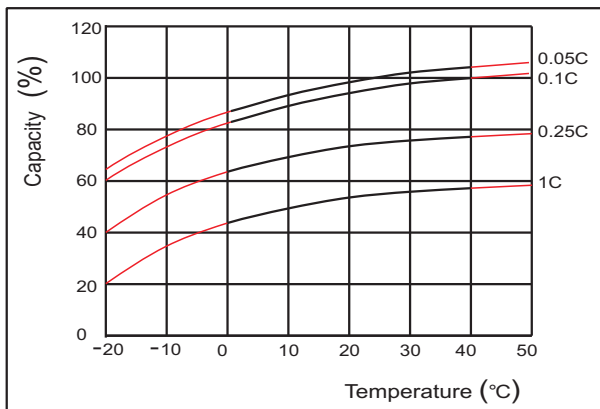
Discharge characteristics(25°C)



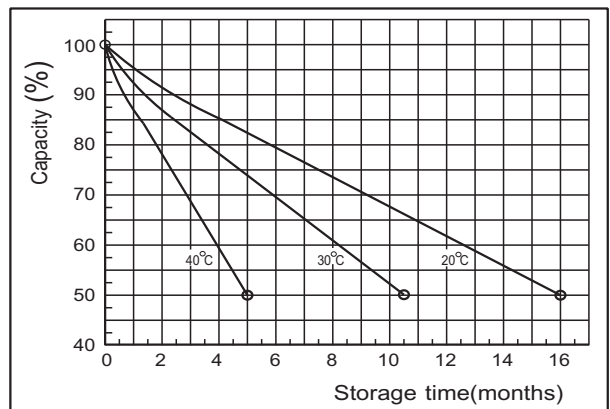
Charging characteristics (25°C)



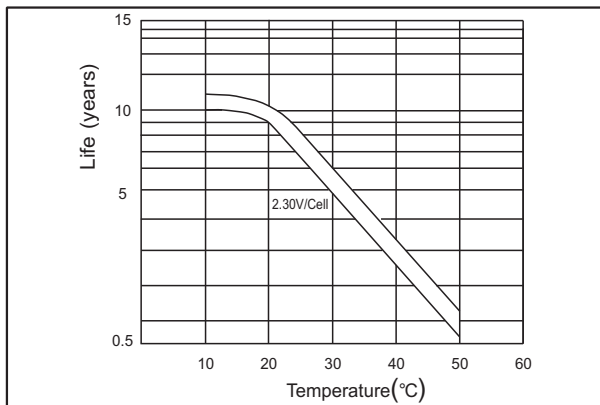
Effect of Temperature on Capacity



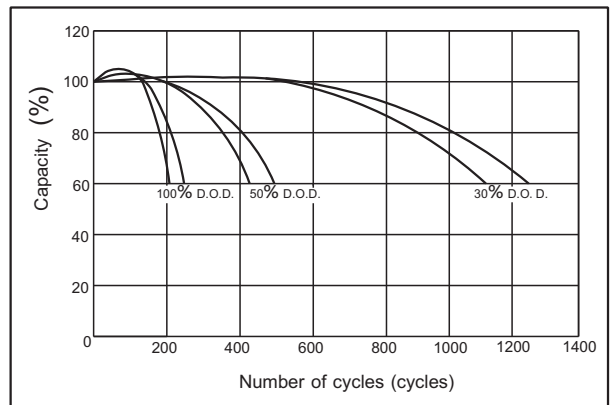
Self-discharge characteristics



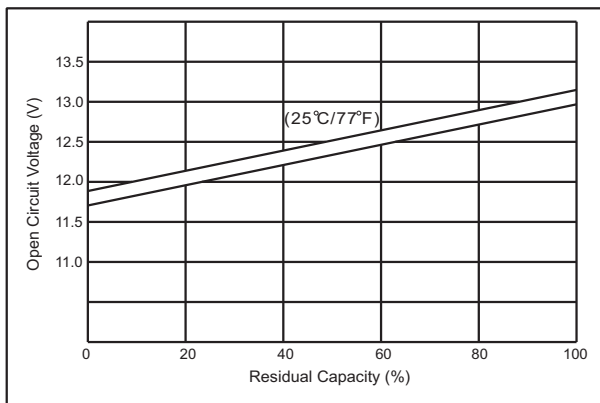
Floating Life on Temperature



Cycle service Life on D.O.D (25°C)



The relationship for OCV and Capacity (25°C)



The relationship for Charging voltage and Temperature

