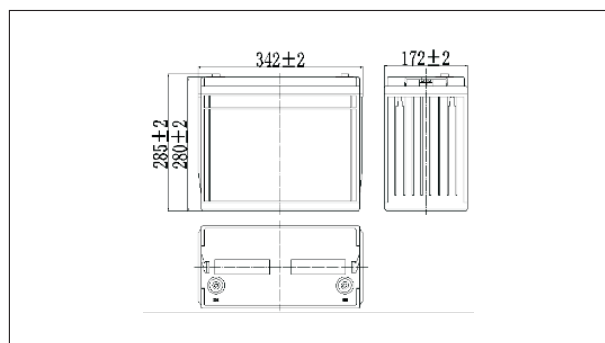


HR12540W-FR (12V540 Watts/cell)

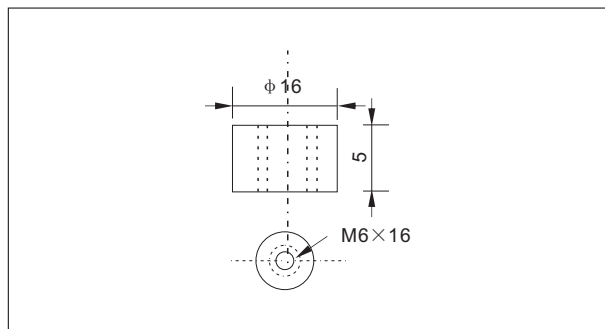
Specifications

Nominal Voltage		12V
Number of cell		6 cells
Rated capacity(15min.rat)		540 Watts/cell
Dimensions	Length	342±2mm(13.46inch)
	Width	172±2mm(6.77inch)
	Height	280±2mm(11.02inch)
	Total Height	285±2mm(11.2inch)
Approx. Weight		46.5kg(102.3lbs)±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	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V/cell	533.19	387.66	319.62	199.5	114.98	64.79	45.36	29.4	20.06	16.7	8.78
1.67V/cell	490.25	358.37	302.93	189.84	110.88	63.11	44.52	28.67	19.64	16.28	8.61
1.70V/cell	447.2	325.19	278.25	181.97	107.1	61.11	43.26	28.04	19.22	16.07	8.46
1.75V/cell	400.37	295.89	253.26	169.89	102.17	59.12	42.11	27.41	18.8	15.75	8.33
1.80V/cell	343.77	264.6	228.48	158.24	96.71	56.7	40.74	26.78	18.48	15.44	8.14

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

F.V/Time	5min	10min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V/cell	954.35	700.88	586.53	372.12	217.88	123.59	87.05	57.02	39.38	32.87	17.43
1.67V/cell	894.6	661.61	565.95	361.62	213.99	122.64	86.94	56.6	39.06	32.76	17.43
1.70V/cell	824.67	606.8	524.16	348.71	207.8	119.28	84.84	55.65	38.54	32.45	17.22
1.75V/cell	745.61	557.24	481.85	327.81	199.71	116.24	83.16	54.6	37.91	31.92	17.01
1.80V/cell	646.17	504.84	438.69	307.65	190.37	112.14	80.96	53.66	37.38	31.5	16.7

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

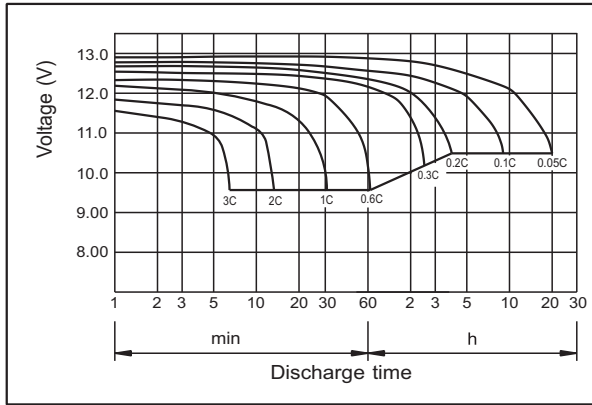


Characteristics

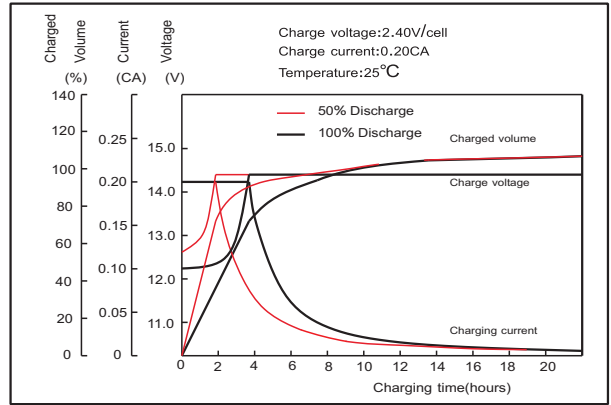
Capacity(10HR,25℃)		145Ah
Capacity(15min.rate,25℃)		540 Watts/cell
Terminal type		T16A
Internal resistance (Fully charged,25℃)		Approx.3.2m Ω
Capacity affected by temperature (10HR)	40℃	102%
	25℃	100%
	0℃	85%
	-15℃	65%
Self-discharge (25℃)	3month	Remaining Capacity:91%
	6month	Remaining Capacity:82%
	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		43.5A
Terminal material		Copper
Maximum discharge current		2015A(5 sec.)
Designed floating life(20℃)		10years

HR12540W-FR (12V540Watts/cell)

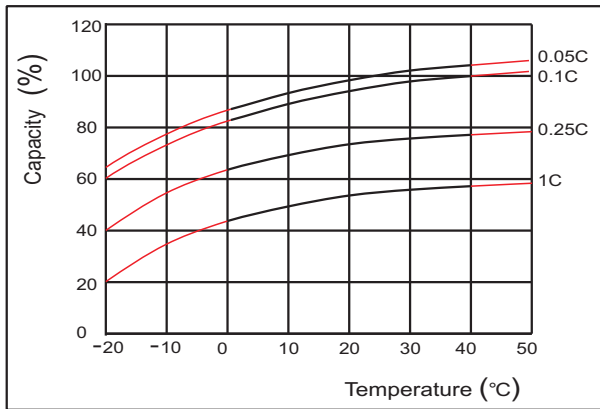
Discharge characteristics(25°C)



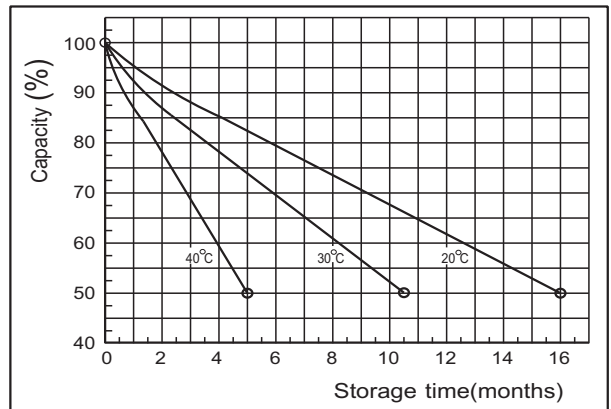
Charging characteristics (25°C)



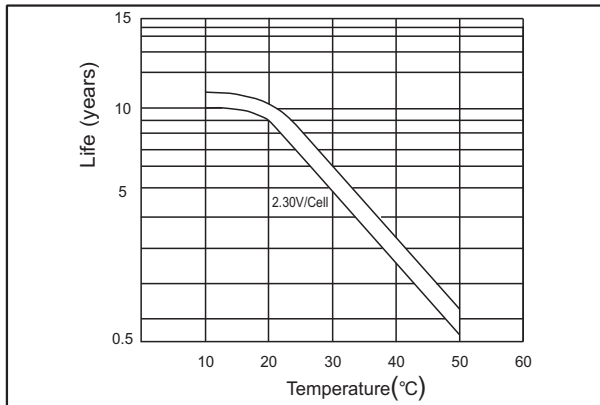
Effect of Temperature on Capacity



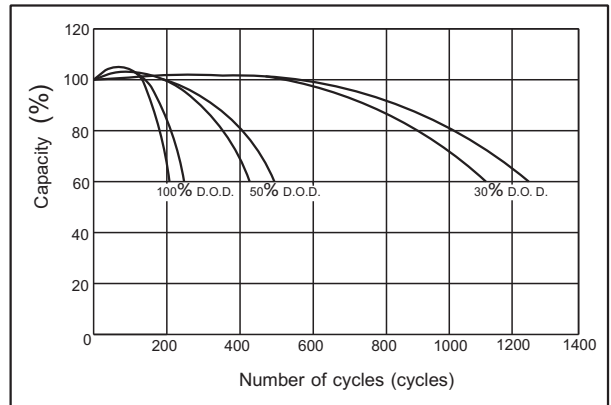
Self-discharge characteristics



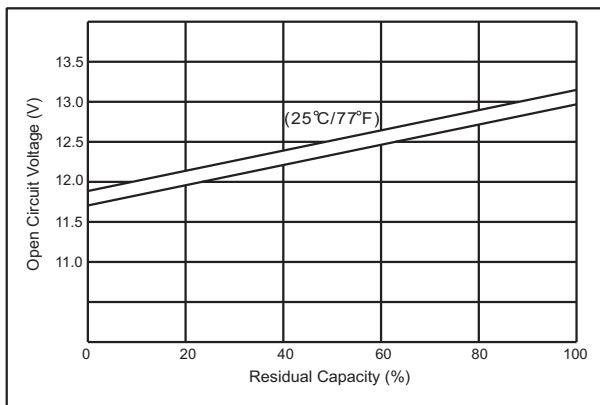
Floating Life on Temperature



Cycle service Life on D.O.D (25°C)



The relationship for OCV and Capacity (25°C)



The relationship for Charging voltage and Temperature

