

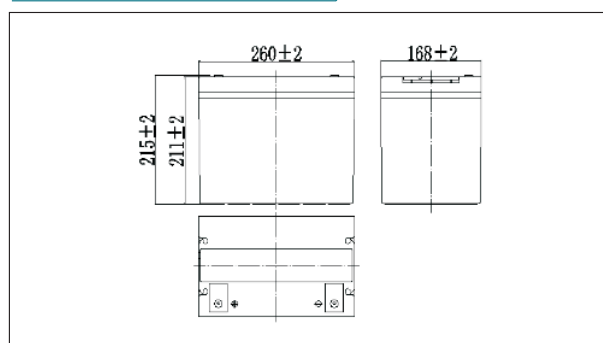
HR12280W-FR (12V280 Watts/cell)

Specifications

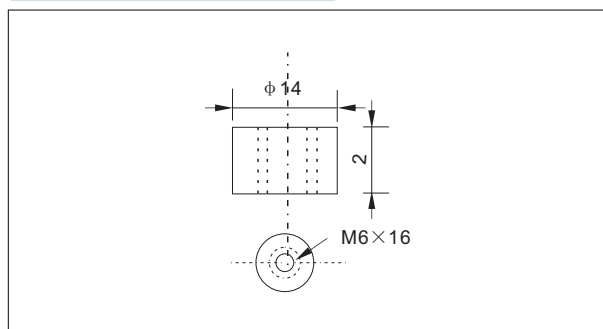
Nominal Voltage		12V
Number of cell		6 cells
Rated capacity(15min.rat)		280 Watts/cell
Dimensions	Length	260±2mm(10.24inch)
	Width	168±2mm(6.61inch)
	Height	211±2mm(8.31inch)
	Total Height	215±2mm(8.46inch)
Approx. Weight		25.3kg(55.8lbs)±3%



Outer dimensions (mm)



Terminal Type (mm)



Characteristics

Capacity(10HR,25℃)		80Ah
Capacity(15min.rate,25℃)		280 Watts/cell
Terminal type		T14
Internal resistance (Fully charged,25℃)		Approx.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		24A
Terminal material		Copper
Maximum discharge current		700A(5 sec.)
Designed floating life(20℃)		10years

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	183	150	120	84.9	63.3	51.6	27.4	19.7	15.8	13.8	11.8
1.67V/cell	175	145	115	82.2	61.2	50.3	27.2	19.5	15.7	13.6	11.7
1.70V/cell	170	141	113	80.7	60.1	49.6	27.0	19.4	15.6	13.6	11.6
1.75V/cell	163	136	109	78.7	58.7	48.6	26.6	19.3	15.5	13.5	11.6
1.80V/cell	154	129	103	75.8	56.5	47.1	25.9	18.7	15.1	13.1	11.2

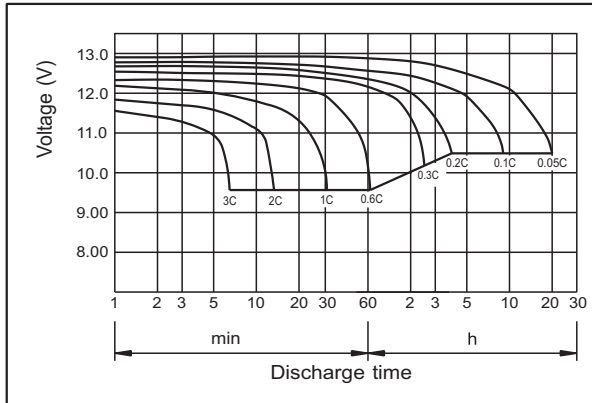
Constant Power Discharge Characteristics Unit:W(25℃,77°F)

F.V/Time	10min	15min	20min	30min	45min	60min	2h	3h	4h	5h	6h
1.60V/cell	344	289	231	164	122	99.6	53.4	38.7	31.2	27.3	23.3
1.67V/cell	329	281	222	159	118	97.1	53.0	38.4	30.9	27.0	23.1
1.70V/cell	320	272	217	159	116	95.6	52.7	38.2	30.8	26.9	23.0
1.75V/cell	306	263	210	152	113	93.7	51.9	38.0	30.6	26.7	22.9
1.80V/cell	289	249	199	146	109	90.9	50.5	36.8	29.7	25.9	22.2

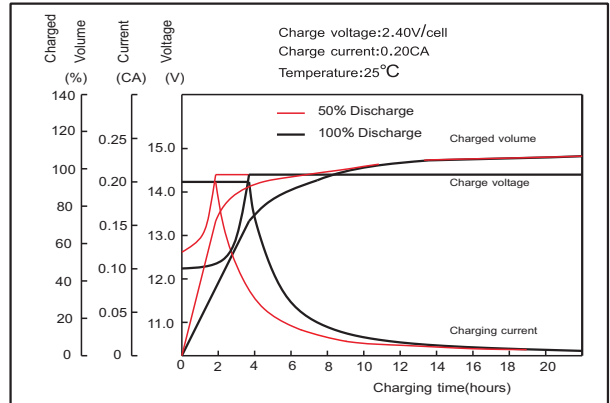
Note: The above characteristics data can be obtained within three charge or discharge cycles.

HR12280W-FR (12V280 Watts/cell)

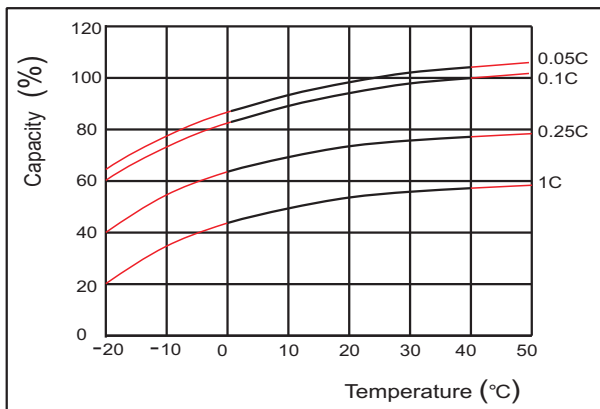
Discharge characteristics(25°C)



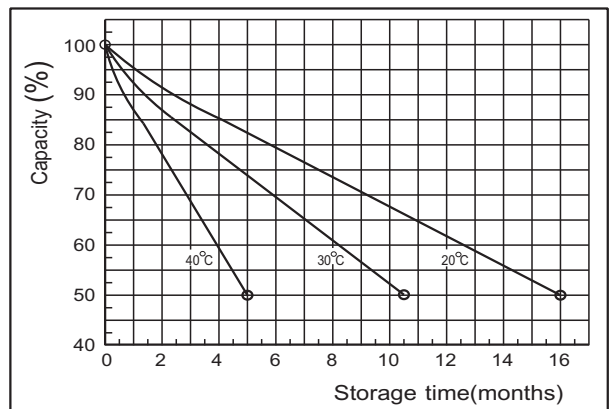
Charging characteristics (25°C)



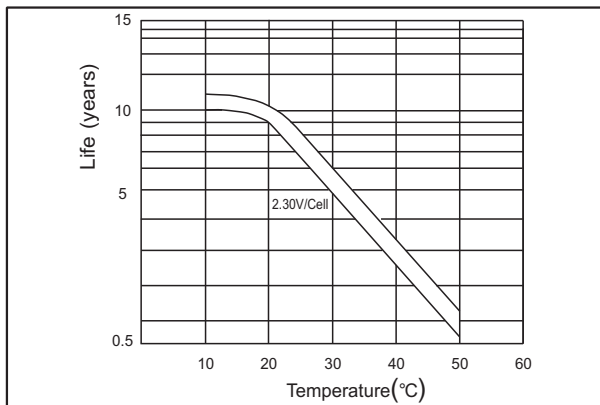
Effect of Temperature on Capacity



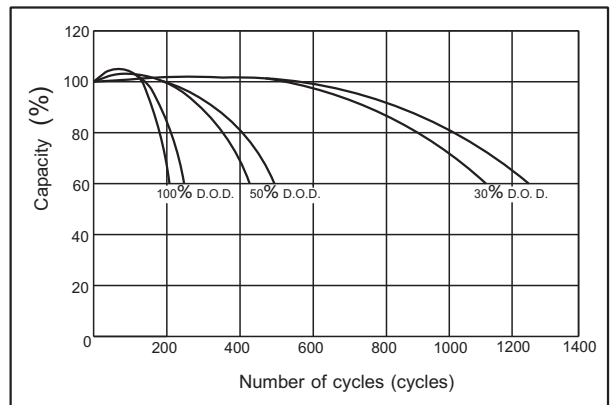
Self-discharge characteristics



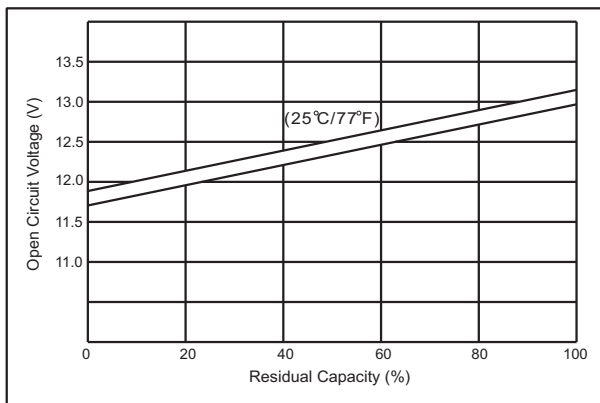
Floating Life on Temperature



Cycle service Life on D.O.D (25°C)



The relationship for OCV and Capacity (25°C)



The relationship for Charging voltage and Temperature

