

General Application

12VHR21W is custom designed specifically for the UPS applications. It offers much improved power density of up to 50% more watts per kilogram than our conventional VC Series.

Specification

• NOMINAL VOLTAGE	: 12 V
• NOMINAL CAPACITY: 21Wh/cell @ 15 Minutes rate to 1.6V@25°C(77°F)	
• DIMENSIONS	
TOTAL HEIGHT	: 103.4mm (4.07 inches)
CONTAINER HEIGHT	: 101.9 mm (4.01 inches)
LENGTH	: 139.7mm (5.5 inches)
WIDTH	: 48 mm (1.89 inches)
• WEIGHT	: APPRO 1.93 Kg (4.25lbs)
• CONTAINER MATERIAL	: UL94HB ABS
	: UL94V-0 ABS
• INTERNAL RESISTANCE(25°C , 77 °F)	: ~35mΩ
• DISCHARGE CAPACITY UNDER DIFFERENT TEMPERATURES	
40°C	: ~102%
25°C	: ~100%
0 °C	: ~85%

Characteristics

• CHARGING VOLTAGE (25°C , 77 °F)	
STANDBY USE	: 13.65V ± 0.15 V
• MAX DISCHARGE CURRENT	: 50 A(5SEC)
• MAX CHARGING CURRENT	: 1.5 A
• SELF-DISCHARGE RESIDUAL CAPACITY(25°C , 77 °F)	
AFTER 3 MONTHS	: ~90%
AFTER 6 MONTHS	: ~82%
AFTER 12 MONTHS	: ~70%

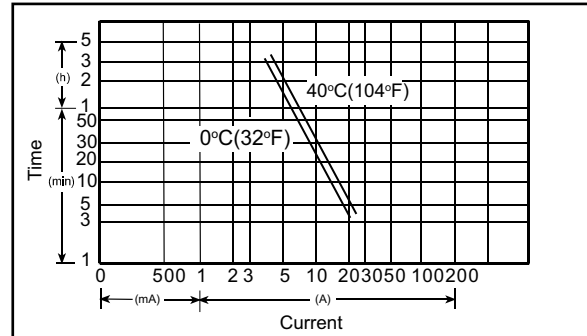
Constant power discharge `Watts` (25°C , 77°F)

Cutoff Time	3Min.	5Min.	7Min.	10Min.	15Min.	30Min.	60Min.	90Min.
9.60V	355.1	275.0	227.0	173.6	130.8	83.7	45.7	33.9
10.2V	317.7	243.9	196.7	157.5	120.2	80.1	43.8	32.1
10.8V	274.1	203.8	168.2	136.2	109.5	74.8	43.3	29.5

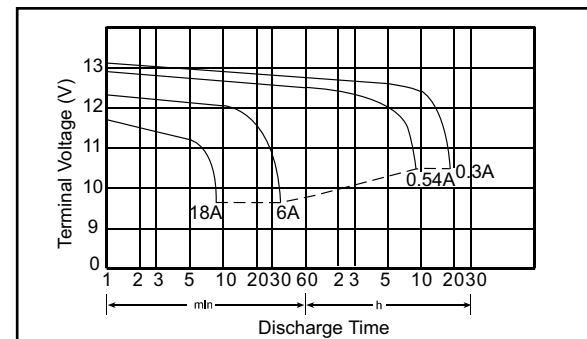
Constant current discharge `Amperes` (25°C , 77°F)

Cutoff Time	3Min.	5Min.	7Min.	10Min.	15Min.	30Min.	60Min.	90Min.
9.60V	30.1	23.4	18.9	14.7	11.1	6.9	3.8	2.8
10.2V	26.9	21.3	16.6	13.3	10.1	6.7	3.7	2.7
10.8V	22.6	17.3	14.1	11.7	9.1	6.4	3.6	2.5

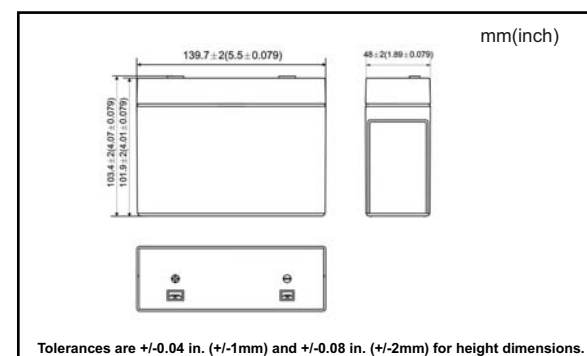
Discharge Current vs Time



Discharge Characteristics @25 °C (77 °F)



Dimensions



Terminal

