

# 12VHR300W 12V300W

## General Application

12VHR300W is custom designed specifically for the UPS applications. It offers much improved power density of up to 30% more watts per kilogram than our conventional VC Series.

## Specification

● NOMINAL VOLTAGE	: 12 V
● NOMINAL CAPACITY(20 hr)	: 300W/Cell @15 Minutes rate to 1.6V@25°C(77°F)
● DIMENSIONS	
TOTAL HEIGHT	: 211 mm ( 8.31 inches )
CONTAINER HEIGHT	: 208 mm ( 8.19 inches )
LENGTH	: 260 mm (10.24 inches )
WIDTH	: 169 mm ( 6.65 inches )
● WEIGHT	: APPROX 27 Kg (59.54lbs )
● CONTAINER MATERIAL	: UL94HB ABS
	: UL94V-0 ABS
● INTERNAL RESISTANCE( 25°C , 77 °F )	: ~6.5mΩ
● 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
● CYCLE USE	: 14.7V ± 0.3 V
● MAX DISCHARGE CURRENT	: 600 A ( 5 sec )
● MAX CHARGING CURRENT	: 24 A
SELF-DISCHARGE RESIDUAL CAPACITY( 25°C , 77 °F )	
AFTER 3 MONTHS	: ~90%
AFTER 6 MONTHS	: ~82%
AFTER 12 MONTHS	: ~70%

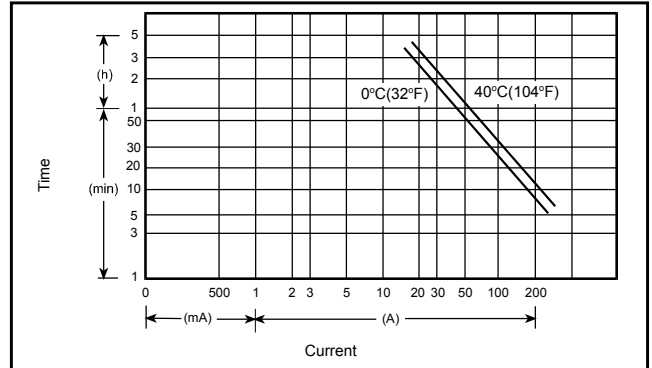
### Constant power discharge `Watts` (25°C , 77°F)

Time Cutoff	5M	10M	15M	30M	60M	120M	180M
1.6V	644.0	409.0	305.0	180.0	100.8	56.0	39.0
1.7V	597.0	389.0	293.0	175.0	98.9	55.0	38.4
1.8V	525.0	351.0	265.0	162.5	94.6	53.0	37.2

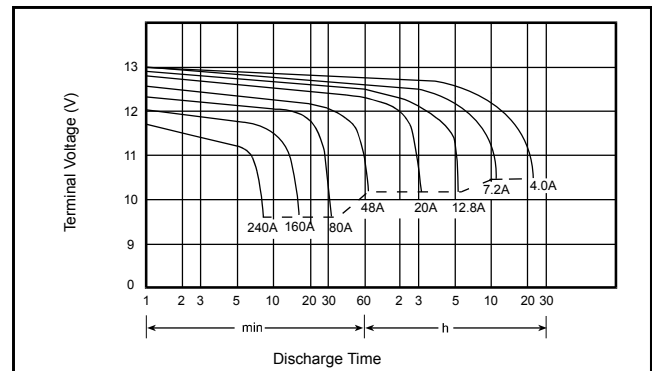
### Constant current discharge `Amperes` (25°C , 77°F)

Time Cutoff	5M	10M	15M	30M	60M	120M	180M
1.6V	354.0	213.0	156.0	89.6	50.5	28.0	19.5
1.7V	320.0	203.0	151.0	88.0	49.7	25.7	19.2
1.8V	282.0	183.0	138.0	82.0	46.8	26.5	18.5

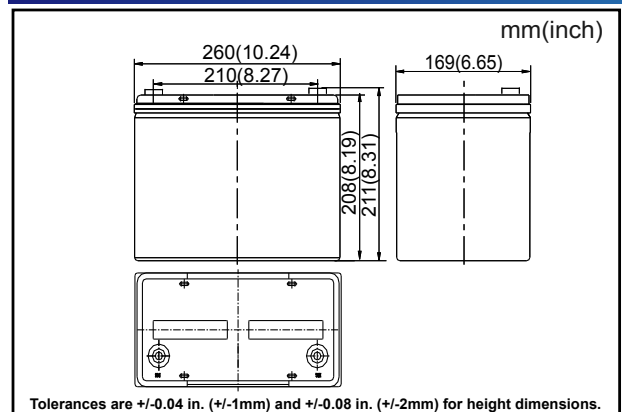
## Discharge Current vs Time



## Discharge Characteristics @25 °C ( 77 °F )



## Dimensions



## Terminal

