

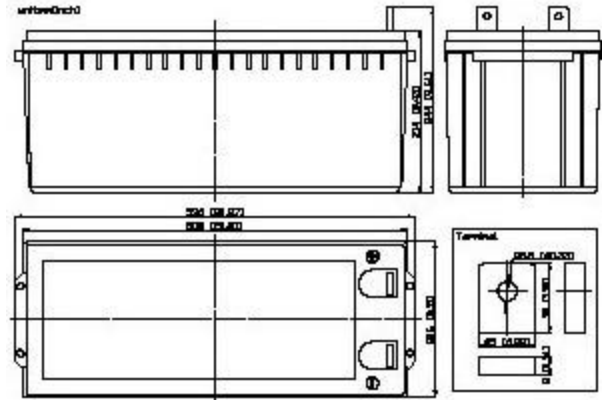
# sealed lead-acid battery

model #UB4D/GEL

upg #40701



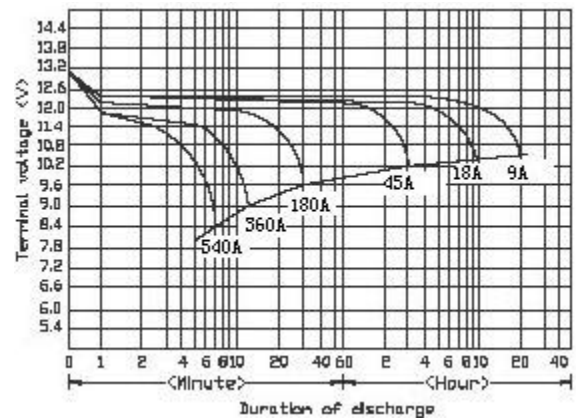
## Dimensions Terminal type: M8 Nut & Bolt



## Specifications

Nominal voltage		12V
Rated capacity (20 hour rate)		180.0Ah
Dimensions	Length	20.87in ( 530.1 mm)
	Width	8.11in ( 206.0 mm)
	Height	8.43in ( 214.1 mm)
	Total Height	9.61in ( 244.1 mm)
Approx. weight		123.46lbs ( 56.0 kg)

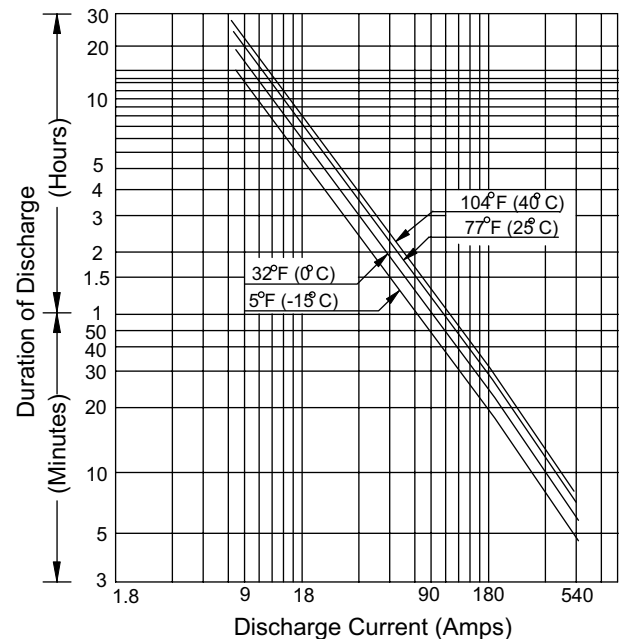
## Discharge characteristics 77° F (25° C) (Note)



## Characteristics

Capacity <sup>(Note)</sup> 77° F (25° C)	20 hour rate( 9.00A)	180.0 Ah	
	10 hour rate( 16.74 A)	167.4 Ah	
	5 hour rate( 30.60A)	153.0 Ah	
	1 hour rate( 108.00A)	108.0 Ah	
Internal resistance (milliohms)	Fully charged battery 77° F (25°C)	Approx. 5	
Temperature dependency of capacity (20 hour rate)	104° F	102%	
	77° F	100%	
	32° F	85%	
	5° F	65%	
Self discharge 77° F (25°C)	Residual capacity after standing 3 months	91%	
	Residual capacity after standing 6 months	82%	
	Residual capacity after standing 12 months	64%	
Charge Method (Constant Voltage)	Cycle use (Repeating use)	Initial current	36A or smaller
		Control voltage	14.0-14.4 V
	Float use	Control voltage	13.0-13.4 V

## Duration of discharge vs. Discharge current (Note)



(Note) The above characteristics data are average values obtained within three charge/discharge. Cycles not the minimum values.

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## Constant Power Discharge Watts Per Cell (25°C)

End Point Volt /cell	Operation Time To End Point Voltage								
	5min	10min	15min	20min	30min	40min	50min	60min	90min
1.75	774	619	521	452	356	288	247	218	158
1.70	820	656	544	469	365	299	252	219	160
1.65	874	693	570	481	373	302	259	222	164
1.60	918	719	589	497	378	306	261	224	166

## Constant Current Discharge Rating Amperes (25°C)

End Point Volt /cell	Operation Time To End Point Voltage													
	5min	10min	30min	60min	2hr	3hr	4hr	5hr	6hr	7hr	8hr	10hr	20hr	24hr
1.90	231	187	134	83	51.9	37.8	30.1	26.7	22.3	19.1	17.1	14.5	7.8	6.5
1.85	306	226	158	97	56.4	40.9	32.4	28.7	23.9	20.5	18.3	15.5	8.3	7.0
1.80	382	260	176	106	61.2	43.5	34.2	30.2	25.3	21.5	19.2	16.2	8.8	7.3
1.75	418	282	187	108	62.5	45.0	35.3	31.0	26.0	22.3	19.6	16.7	9.0	7.5