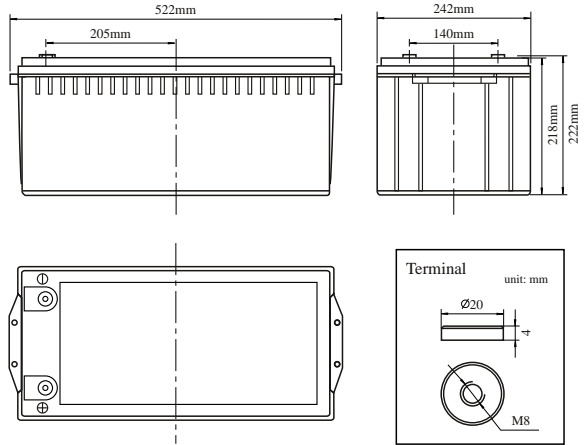


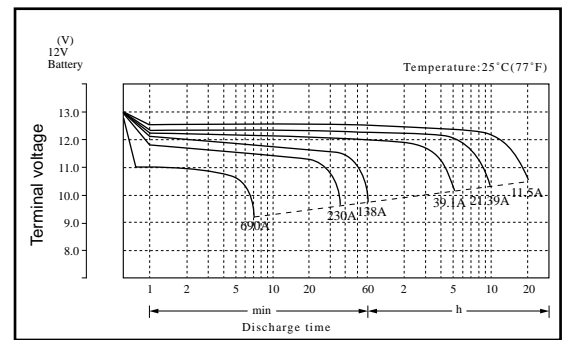
HGL230-12



Specifications

Nominal Voltage		12V
Rated Capacity(20 hour rate)		230AH
Dimension	Total Height (with terminals)	222mm(8.74inches)
	Height	218mm(8.58inches)
	Length	522mm(20.55inches)
	Width	242mm(9.53inches)
Weight		Approx.76.5kg(168.65lbs)

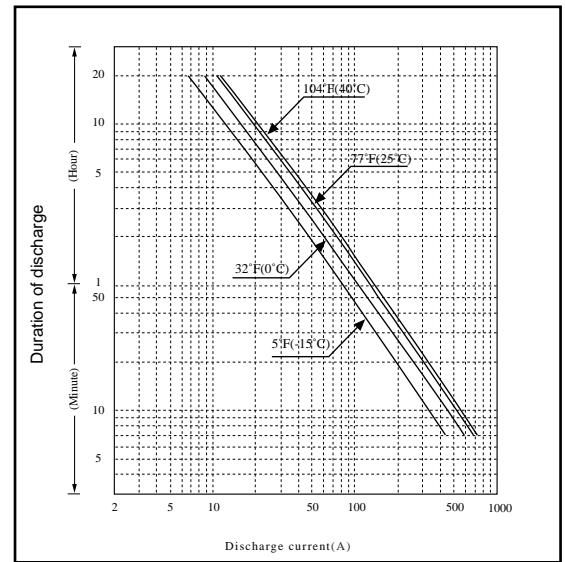
Discharge characteristics 77°F(25°C)



Characteristics

Capacity 77°F(25°C)	20 hour rate(11.5A)	230AH
	10 hour rate(21.39A)	213.9AH
	5 hour rate(39.1A)	195.5AH
	1 hour rate(138A)	138AH
	15 min rate(402.4A)	100.6AH
Internal Resistance	Full charged Battery 77°F(25°C)	2mΩ
Capacity affected by Temperature (20 hour rate)	104°F(40°C)	102%
	77°F(25°C)	100%
	32°F(0°C)	85%
	5°F(-15°C)	65%
Self-Discharge 77°F(25°C)	Capacity after 3 month storage	91%
	Capacity after 6 month storage	82%
	Capacity after 12 month storage	64%
Max. Discharge Current 77°F(25°C)		3450A(5S)
Terminal	Standard	F17
	Optional	
Charging (Constant Voltage)	Cycle	Initial Charging Current 46A Or Small 14.5~14.9V/77°F(25°C)
	Float	13.6~13.8V/77°F(25°C)

Duration of discharge vs. Discharge current



Constant Power Discharge Watts Per Cell @ 77°F(25°C)

Cut off voltageV/cell	5M	10M	15M	30M	45M	1H	2H	3H	5H	8H	10H	12H	24H
1.60V	1093	874	721	470	355	283	165	115	77.4	50.8	43.0	37.1	19.1
1.65V	1033	837	698	463	350	281	164	114	76.8	50.8	43.0	37.1	19.1
1.67V	1023	826	686	459	348	277	164	113	76.5	50.8	43.0	37.1	19.1
1.70V	965	792	665	454	345	275	163	113	76.1	50.7	43.0	37.1	19.1
1.75V	909	746	637	444	336	274	162	112	75.6	50.2	42.5	37.1	19.1
1.80V	847	701	610	433	327	273	161	111	75.1	49.7	42.1	36.7	19.1

Note The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values.