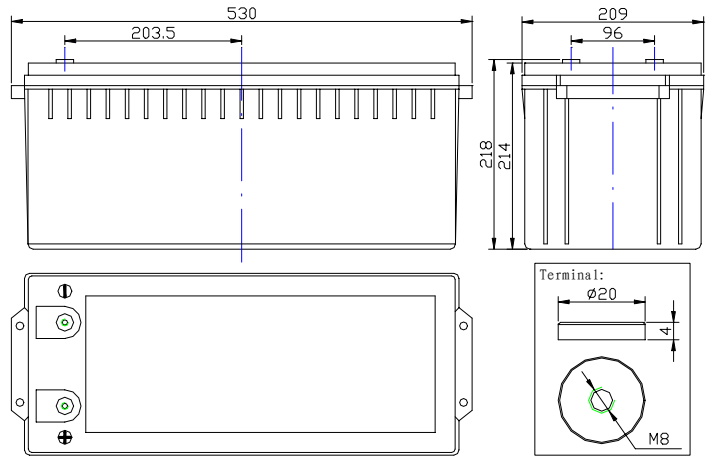


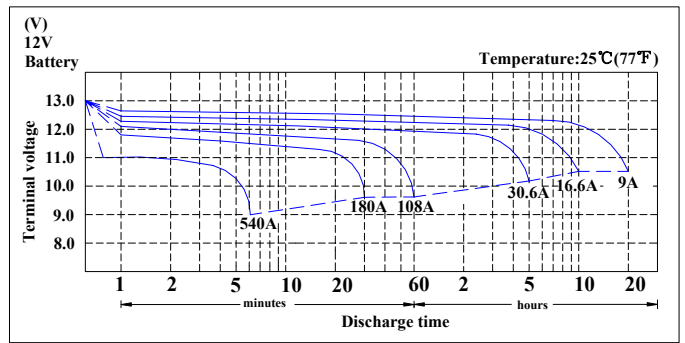
HL180-12



Specifications

Nominal Voltage		12V
Rated Capacity (20 hour rate)		180AH
Dimension	Total Height (with terminals)	218mm(8.58inches)
	Height	214mm(8.43inches)
	Length	530mm(20.87inches)
	Width	209mm(8.23inches)
Weight		Approx.56.2kg (123.46lbs)

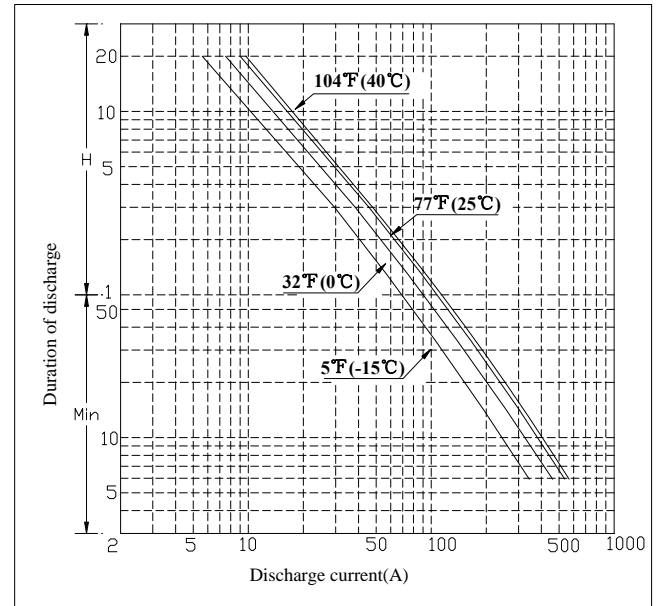
Discharge characteristics 77°F (25°C)



Characteristics

Capacity 77°F (25°C)	20 hour rate (9.0A to 10.5Volts)	180AH	
	5 hour rate (30.6A to 10.2Volts)	153AH	
	1 hour rate (108A to 9.6Volts)	108AH	
Internal Resistance	Full charged 77°F (25°C)	2.3mΩ	
Standard Terminal	M8		
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	88%	
	Capacity after 6 month storage	76%	
	Capacity after 12 month storage	53%	
Max. Discharge Current 77°F (25°C)	1800A (5s)		
Reserve Capacity (Minutes to 10.5V at 80°F (27°C))		@ 25Amps	340Min
		@ 75Amps	83Min
Charging (Constant Voltage)	Cycle	Initial Charging Current 36A Or Small 14.5V~14.9V/77°F (25°C)	
	Float	13.6V~13.8V/77°F (25°C)	

Duration of discharge vs. Discharge current



Constant Current Discharge Rating Amperes @ 77 °F (25°C)

Cut off voltage V/cell	30M	45M	1H	2H	3H	5H	8H	10H	12H	20H	24H
1.70V	297	176.1	128.3	101.7	59.0	44.61	30.32	20.58	16.79	14.29	9.03
1.75V	277	171.0	125.8	100.2	58.2	44.10	29.99	20.48	16.74	14.25	9.00