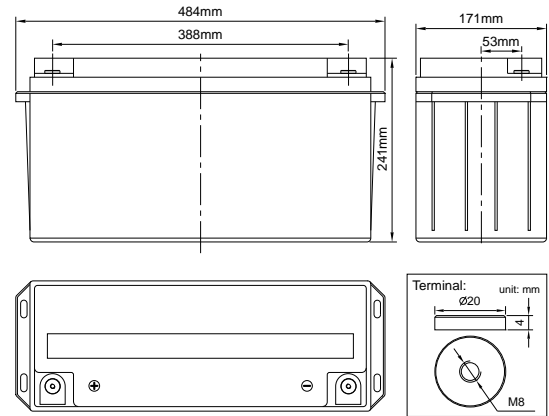


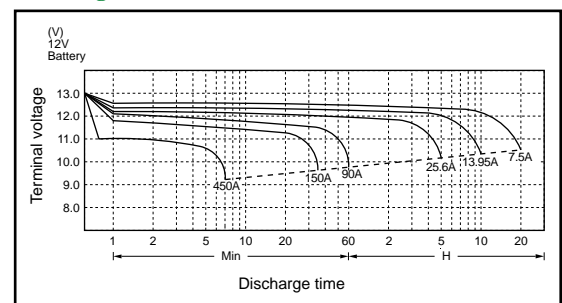
HL150-12



Specifications

Nominal Voltage		12V
Rated Capacity(20 hour rate)		150AH
Dimension	Total Height (with terminals)	241mm(9.49inches)
	Height	241mm(9.49inches)
	Length	484mm(19.06inches)
	Width	171mm(6.73inches)
Weight		Approx.49.6kg(109.35lbs)

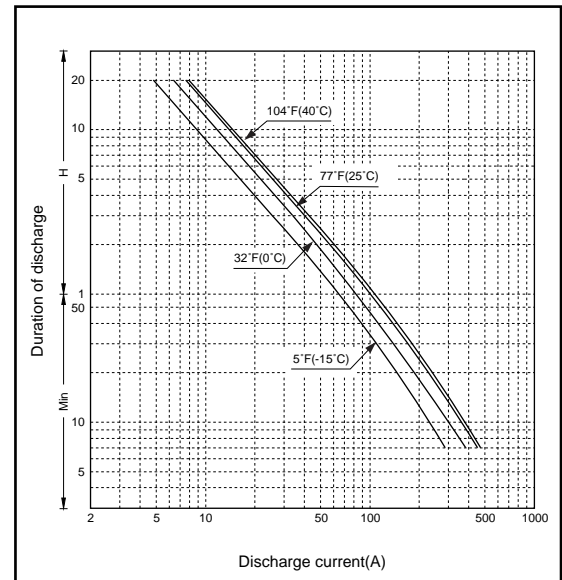
Discharge characteristics 77°F(25°C)



Characteristics

Capacity 77°F(25°C)	20 hour rate(7.5A)	150AH
	10 hour rate(13.95A)	139.5AH
	5 hour rate(25.6A)	128AH
	1 hour rate(90A)	90AH
Internal Resistance	Full charged Battery 77°F(25°C)	2.5mΩ
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)	2250A(5S)	
Terminal	Standard	F17
	Optional	F9
Charging (Constant Voltage)	Cycle	Initial Charging Current 30A 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



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

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

End Point Volt/cell	Operation Time To End Point Voltage								
	5min	10min	15min	20min	30min	40min	50min	60min	90min
1.75	675	527	440	380	297	241	206	181	144
1.70	715	560	460	393	305	250	210	182	145
1.67	752	585	475	400	309	251	214	183	146
1.65	760	592	480	404	311	253	216	184	147
1.60	795	612	497	417	316	256	218	186	149

Constant Current Discharge Rating Amperes @ 77°F(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
1.75	364	237	156	90.0	52.1	37.5	29.4	25.6	21.0	18.5	15.9	14.0	7.50	6.28
1.80	329	219	147	88.2	51.0	36.2	28.5	24.9	20.4	17.8	16.0	13.6	7.35	6.15
1.85	267	192	133	80.4	47.0	34.1	27.0	23.6	19.3	17.0	15.2	13.1	6.98	5.88
1.90	203	158	112	68.7	43.3	31.5	25.1	21.9	18.0	15.8	14.3	12.1	6.52	5.49