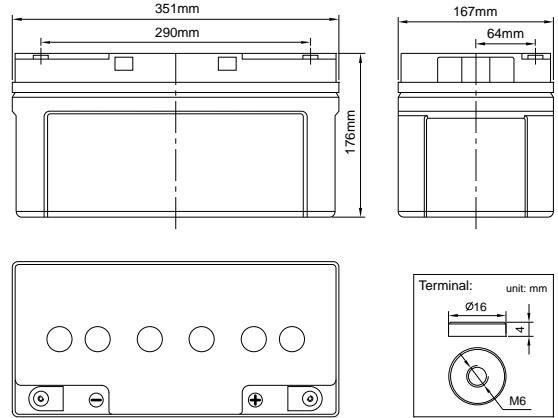


HL65-12



Specifications

Nominal Voltage		12V
Rated Capacity(20 hour rate)		65AH
Dimension	Total Height (with terminals)	176mm(6.93inches)
	Height	176mm(6.93inches)
	Length	351mm(13.82inches)
	Width	167mm(6.57inches)
Weight		Approx. 24.6kg(54.23lbs)

Characteristics

Capacity 77°F(25°C)	20 hour rate(3.25A)	65AH
	10 hour rate(6.05A)	60.5AH
	5 hour rate(11A)	55AH
	1 hour rate(39A)	39AH
Internal Resistance	Full charged Battery 77°F(25°C)	7mΩ
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)	975A(5S)	
Terminal	Standard	F15
	Optional	
Charging (Constant Voltage)	Cycle	Initial Charging Current 13A Or Small 14.5V~14.9V/77°F(25°C)
	Float	13.6V~13.8V/77°F(25°C)

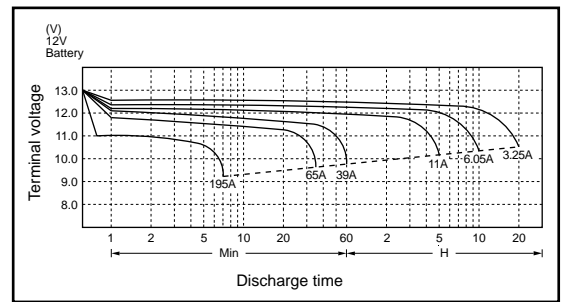
Constant Power Discharge Watts Per Cell @ 77°F(25°C)

End Point Volt/cell	Operation Time To End Point Voltage								
	5min	10min	15min	20min	30min	40min	50min	60min	90min
1.75	325	243	197	164	129	108	90.9	78.3	54.8
1.70	351	260	207	172	134	110	92.8	80.0	55.9
1.67	360	265	211	175	136	111	93.1	80.4	56.2
1.65	367	268	214	177	137	112	93.9	80.9	56.6
1.60	375	272	215	178	138	113	94.7	81.7	57.0

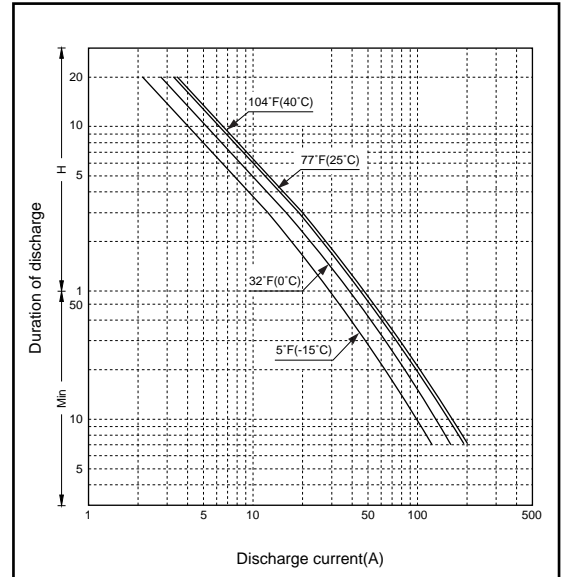
Constant Current Discharge Rating Amperes @ 77°F(25°C)

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	176	109	67.7	39.0	23.5	16.8	13.1	11.0	9.47	8.29	7.44	6.05	3.25	2.71
1.80	157	99.9	64.1	37.3	22.8	16.3	12.8	10.9	9.28	8.12	7.23	5.95	3.17	2.66
1.85	136	91.1	58.6	34.9	21.6	15.6	12.4	10.4	8.93	7.87	6.96	5.71	3.02	2.54
1.90	109	73.7	50.5	31.0	20.3	14.7	11.7	10.0	8.55	7.51	6.68	5.51	2.84	2.37

Discharge characteristics 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.