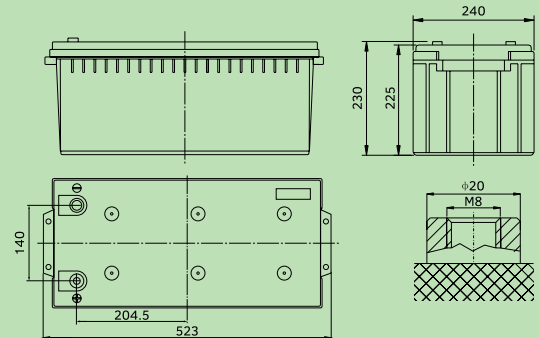
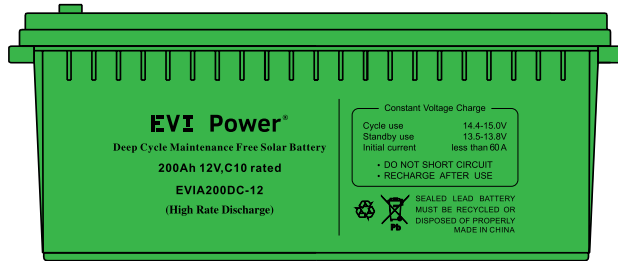


Deep Cycle

200Ah, 12V

Part no.: EVIA200DC-12

LEAD-ACID BATTERY



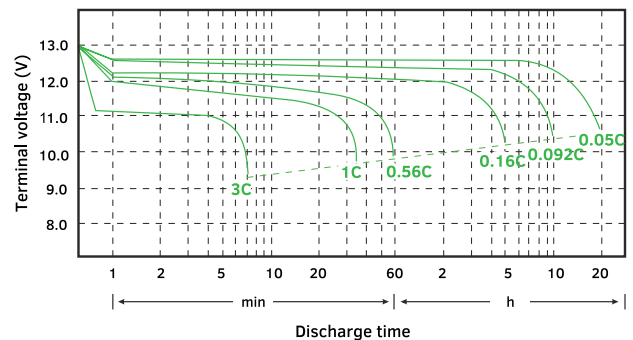
Technical Specifications

Specifications		
Nominal Voltage		12 V
Rated Capacity (20 hour rate)		200 Ah
Dimensions	Total Height (with terminals)	9.06 inches (230 mm)
	Height	8.86 inches (225 mm)
	Length	20.59 inches (523 mm)
	Width	9.45 inches (240 mm)
Weight		Approx. 60 kg

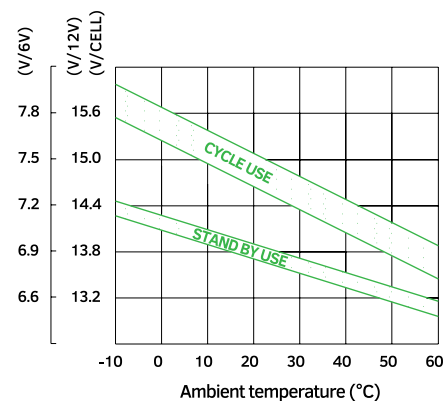
Characteristics			
Capacity 77 °F (25 °C)	10 hour rate (20 A)	200 Ah	
	5 hour rate (32.0 A)	160 Ah	
	1 h our rate (120. A)	120 Ah	
	15 minute Rate (328 A)	82 Ah	
Internal Resistance	Fully charged Battery 77 °F (25 °C)	3 mΩ	
Capacity affected by Temperature (20 hour rate)	104 °F (40 °C)	102 %	
	77 °F (25 °C)	100 %	
	32 °F (0 °C)	85 %	
	5 °F (-15 °C)	65 %	
Self-Discharge 77 °F (20 °C)	Capacity after 3 months storage	91 %	
	Capacity after 6 months storage	81 %	
	Capacity after 12 months storage	60 %	
Max. Discharge Current 77 °F (25 °C)		1333A(5S)	
Terminal		M3	
Charge (Constant Voltage)	Cycle	Initial Charging Current less than 60A Voltage 14.4 ~ 14.7 V / 77 °F (25 °C)	
	Float	Voltage 13.5 ~ 13.8 V / 77 °F (25 °C)	

Constant Current Discharge (amperes @25°C)												
F.V/	10	15	30	60	120	180	240	300	480	600	1200	
Time	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min	
1.60	401	328	197	127	73.1	52.1	40.7	34.6	23.8	21.1	10.4	
1.65	386	315	189	122	70.3	52.0	40.3	34.5	23.5	20.9	10.3	
1.70	364	286	177	121	69.2	51.8	39.2	34.2	23.0	20.4	10.1	
1.75	317	254	152	120	68.8	51.5	38.5	33.5	22.7	20.2	10.0	
1.80	305	244	146	115	66.2	50.0	37.0	32.0	21.8	20.0	9.62	
1.85	250	212	134	106	63.6	49.9	35.2	30.8	20.7	19.2	9.14	

Discharge Curves 77 °F (25 °C)



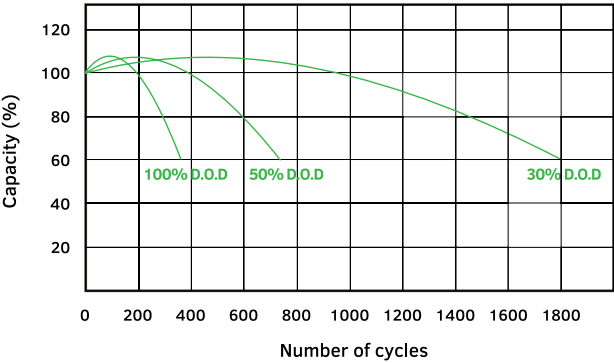
Relationship between charge voltage and temperature



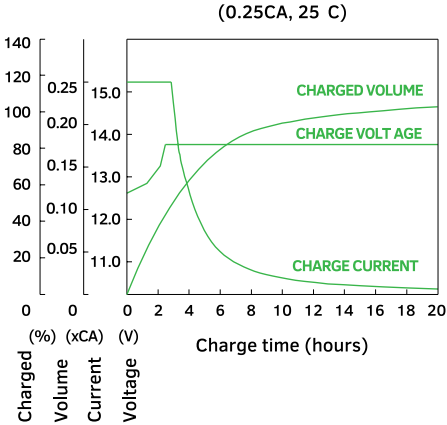
Constant Power Discharge (watts per cell @25°C)												
F.V/	10	15	30	60	120	180	240	300	480	600	1200	
Time	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min	Min	
1.60	697	545	349	231	138	95.8	75.5	63.2	43.5	37.3	19.0	
1.65	691	541	343	228	136	94.6	74.9	63.0	43.3	36.8	18.7	
1.70	672	529	331	219	134	93.2	74.0	62.6	43.0	36.0	18.5	
1.75	629	499	296	216	133	92.8	73.5	62.0	42.5	35.1	18.4	
1.80	584	469	281	211	130	92.1	72.9	61.4	41.7	34.4	18.1	
1.85	485	410	257	207	124	89.3	69.6	57.2	38.9	32.8	17.8	

Operating environment temperatures above 40°C should be avoided. Long periods of storage may result in decreased battery capacity. Full capacity may be upon several charge/discharge cycles. To maximize battery life, battery should be fully charged prior to storage.

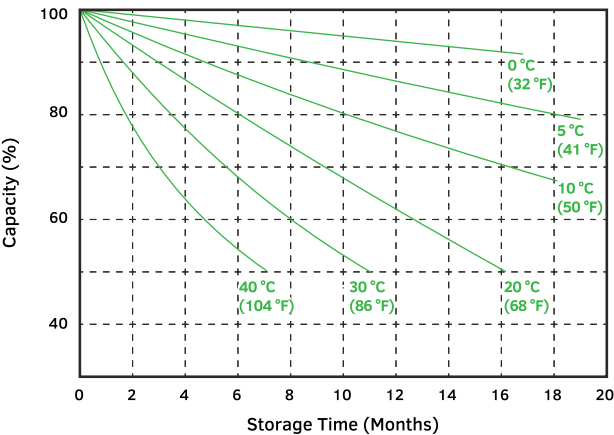
Cycle service life in relation to depth of discharge



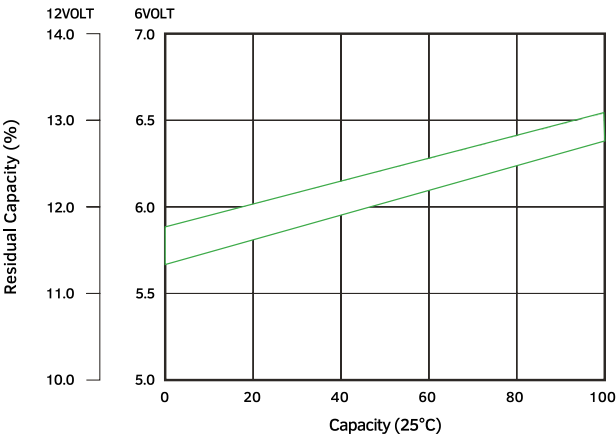
Constant voltage charge characteristic



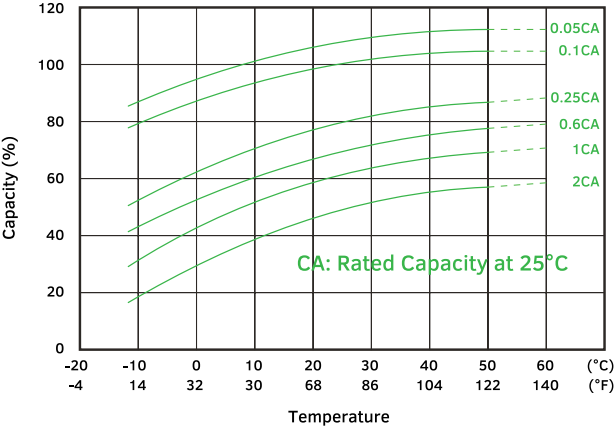
Self-Discharge characteristics



Relationship of OCV and Residual Capacity % (25°C)



Temperature effects on capacity



Temperature effects on float life

