

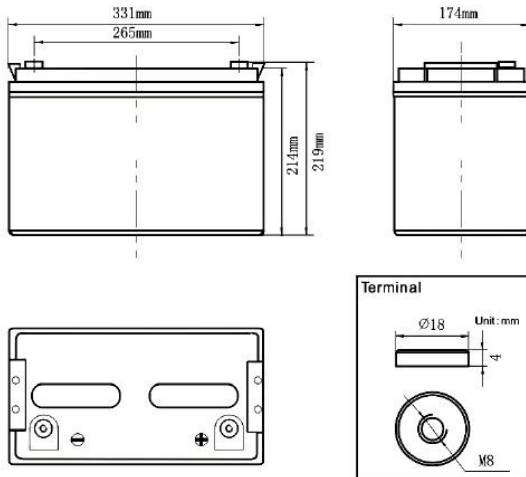
# EVG12-130 12V / 130Ah



## GEL Electrolyte:

The battery is constructed by plates, separators, safety valves and container.  
Since the electrolyte is held by a glassmat separator and plates, the battery can use in any direction and position without leakage.

### Outer Dimensions



### Dimensions and Weight

Length ( mm / inch )	331 / 12.95
Width ( mm / inch )	174 / 6.77
Height ( mm / inch )	214 / 8.46
Total Height ( mm / inch )	219 / 9.57
Approx.Weight( Kg / lbs )	33.0 / 72.6

### Performance Characteristics

Nominal Voltage	12V
Number of cell	6
Design Life	5 years
Nominal Capacity 77°F(25°C)	
20 hour rate(6.5A,10.5V)	130Ah
10 hour rate(11.5A,10.5V)	115 Ah
5 hour rate (21.0A,10.5V)	105Ah
1 hour rate(87.7A,9.6V)	87.7Ah
Internal Resistance	
Fully Charged battery 77°F(25°C)	3mΩ
Self-Discharge	
3% of capacity declined per month at 20°C(average)	
Operation Temperature Range	
Discharge	-20~60°C
Charge	-10~60°C
Storage	-20~60°C
Max.Discharge Current 77°F(25°C)	810A(5s)
Short Circuit Current	2025A

### Battery Construction

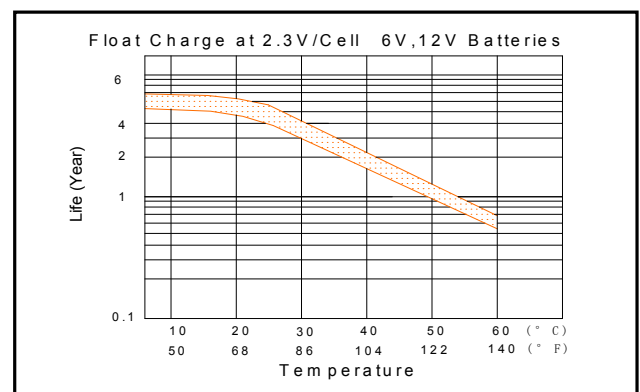
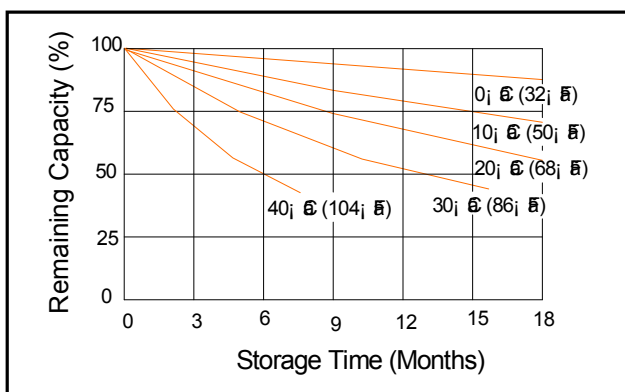
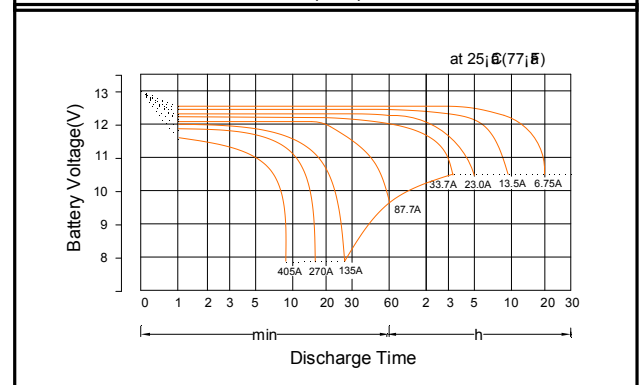
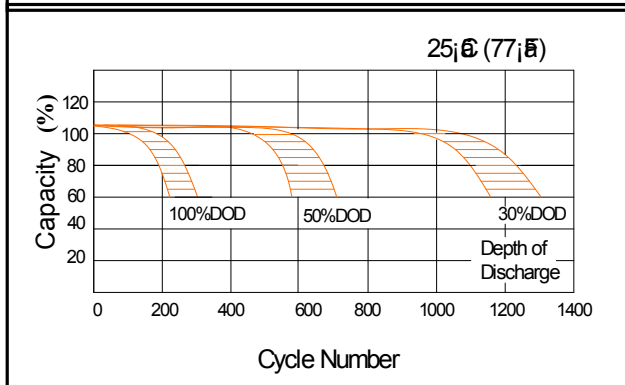
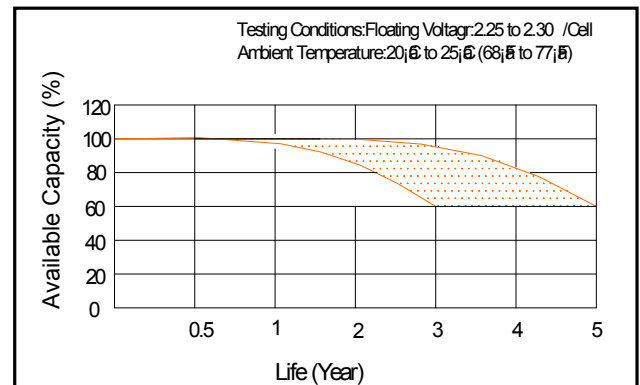
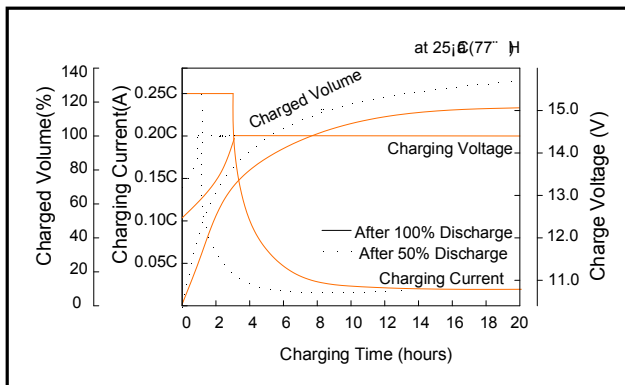
COMPONENT	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
RAW MATERIAL	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	AGM-SiO <sub>2</sub>	GEL

### Charging Methods

Application	Charging method	Charging Voltage at 25°C	Temperature compensation coefficient of charging voltage	Max.charging current	Charging time 25°C(h)		Temp (°C)
					100% discharge	50% discharge	
For standby power source	Constant voltage & Constant Current Charging (with current restriction)	13.4-13.8V	-18 mV/°C	40.5A	24	20	0~40 (32~104°F)
For cycle service		14.5-15.0V	-30 mV/°C	40.5A	16	10	

\*Temperature compensation of charging voltage is not needed when using the batteries within 15°C to 35°C range.

## EVG12-130 12V 130Ah



### Discharge Constant Current (Amperes at 77° F 25° C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
9.60V	473	378	270	156	111	87.8	47.3	34.1	23.2	15.2	12.7	6.89
9.90V	459	365	257	152	109	87.1	46.9	34.0	23.0	15.2	12.7	6.89
10.20V	432	338	243	149	108	86.4	46.6	33.8	23.0	15.1	12.5	6.75
10.50V	378	284	230	140	107	85.1	45.9	33.4	23.0	14.9	12.5	6.75
10.80V	338	243	216	122	105	83.7	44.6	32.4	22.7	14.9	12.2	6.62

### Discharge Constant Power (Watts/cell at 77° F 25° C)

F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
9.60V	5162	4136	2986	1804	1264	1015	545	395	269	177	148	81.0
9.90V	4946	3969	2819	1744	1247	994	540	393	267	176	148	81.0
10.20V	4714	3731	2684	1663	1231	994	536	391	266	176	148	80.5
10.50V	4131	3154	2538	1561	1215	977	528	387	266	175	146	78.8
10.80V	3688	2835	2392	1355	1199	967	512	374	264	175	144	77.2

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