

# CHALLENGER

## EVG 6-225 (6V 225AH)

### Specification

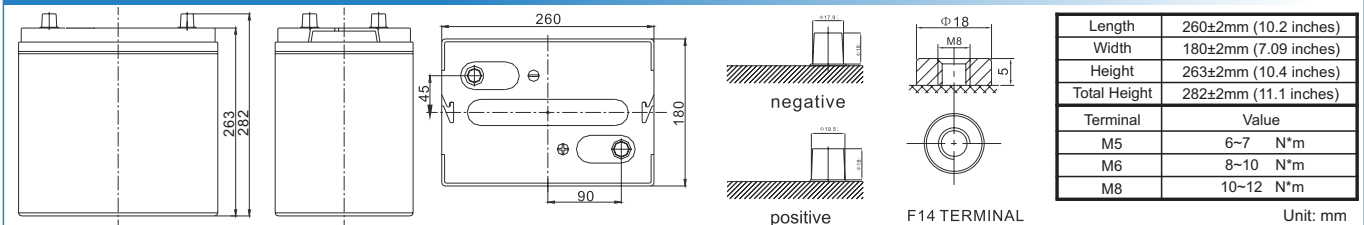
Cells Per Unit	3
Voltage Per Unit	6
Capacity	225Ah@10hr-rate to 1.80V per cell @25°C
Weight	Approx. 32.0 Kg (Tolerance ±3.0%)
Internal Resistance	Approx. 2.0 mΩ
Terminal	F14(M8)/F22(M8)
Max. Discharge Current	2250A (5 sec)
Cold Cranking Ampere(CCA)	1035A
Maxi. Charging Current	67.5A
Reference Capacity	C3 174.3AH
	C5 196.5AH
	C10 225.0AH
	C20 238.0AH
Float Charging Voltage	6.8 V~6.9 V @ 25°C Temperature Compensation: -3mV/°C/Cell
Cycle Use Voltage	7.3 V~7.4 V @ 25°C Temperature Compensation: -4mV/°C/Cell
Operating Temperature Range	Discharge: -20°C~60°C
	Charge: 0°C~50°C Storage: -20°C~60°C
Normal Operating Temperature Range	25°C ±5°C
Self Discharge	Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25°C and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25°C. Please charged batteries before using.
Container Material	A.B.S. UL94-HB, UL94-V0 Optional.



EVG (Electric Vehicle) series is specially designed for frequent discharge deep cycle application. By using the specially designed active material, strong grids and thick plate construction, the EVG series battery offers reliable performance in high load situations and could provide competitive cycle performance. It is suitable for Electric Vehicle and Golf cart, Floor Machines, Forklifts, Aerial lifts, Robotics, Marine, RV, Mobility and Medical Equipment, and most outdoor application.



### Dimensions



### Constant Current Discharge Characteristics : A(25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	397.5	248.8	138.8	82.0	63.5	49.9	42.5	28.6	23.7	12.4
1.65V	380.0	238.9	134.1	79.4	61.6	48.6	41.4	28.2	23.4	12.2
1.70V	355.9	228.3	129.7	76.8	59.9	47.3	40.3	27.8	23.1	12.1
1.75V	331.2	218.2	125.0	74.1	58.1	46.0	39.3	27.4	22.8	11.9
1.80V	305.8	208.6	120.2	71.4	56.3	44.7	38.3	26.9	22.5	11.8
1.85V	253.8	179.6	107.8	65.4	52.1	41.6	35.7	25.3	21.2	11.2

### Constant Power Discharge Characteristics : WPC(25°C)

F.V/Time	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
1.60V	694.8	451.9	260.9	155.4	121.3	95.9	81.9	55.8	46.7	24.4
1.65V	674.1	438.4	253.4	151.2	118.1	93.6	80.1	55.3	46.2	24.1
1.70V	640.8	423.3	246.7	147.0	115.4	91.4	78.3	54.5	45.5	23.8
1.75V	605.0	408.7	239.1	142.5	112.4	89.4	76.6	53.9	45.0	23.6
1.80V	566.5	394.6	231.3	138.1	109.4	87.1	74.9	53.1	44.5	23.4
1.85V	476.8	343.2	208.7	127.2	101.6	81.3	70.0	50.0	41.9	22.2

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.

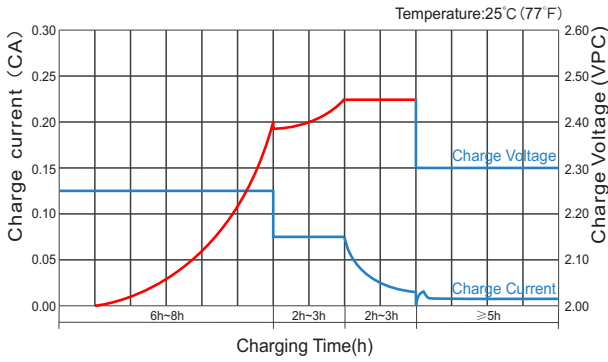
The battery must be fully charged before the capacity test. The C<sub>10</sub> should reach 95% after the first cycle and 100% after the third cycle.

If F22 terminal is selected and the discharge current is more than 0.25C, the threaded terminal of terminal F22 shall not be used in connection, but the lead pole shall be connected.

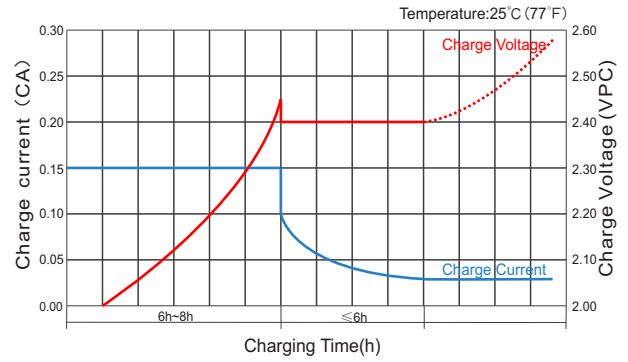
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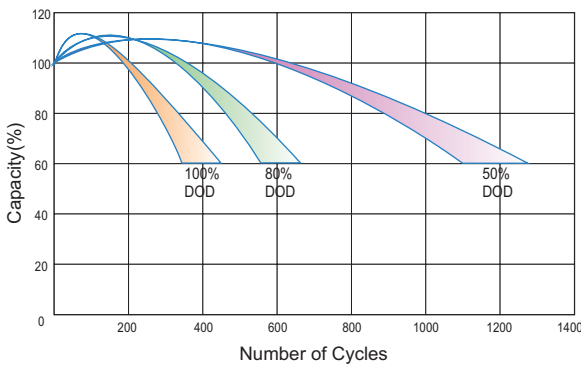
Charge Characteristic Curve for Cycle Use(IUUU)



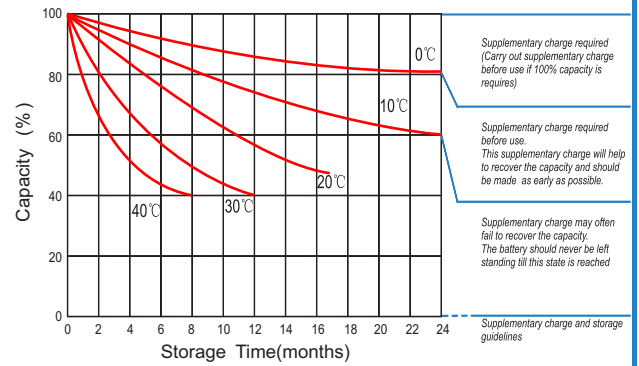
Charge Characteristic Curve For Cycle Use(IIU)



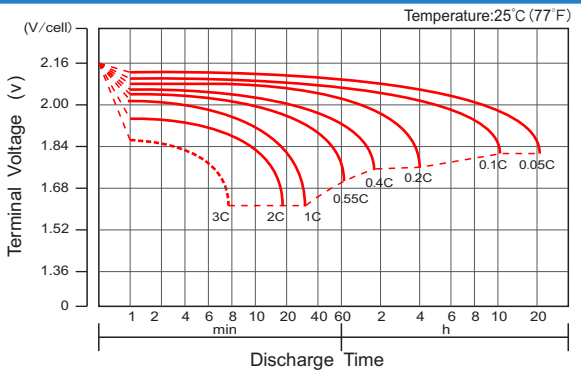
Cycle Life in Relation to Depth of Discharge



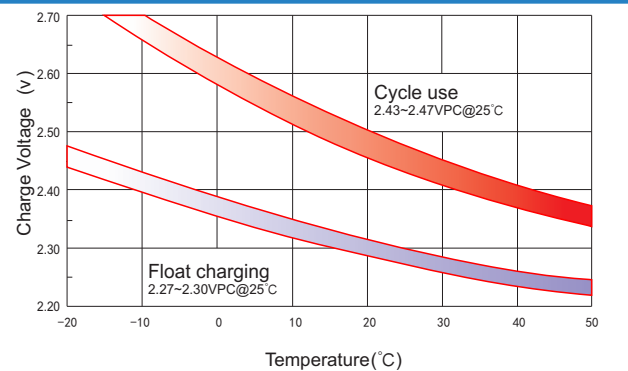
Storage Characteristics



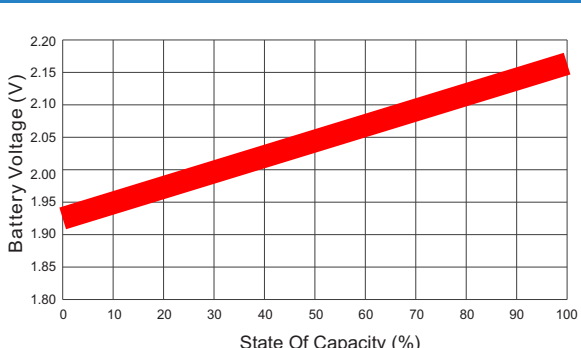
Discharge Characteristics Curve



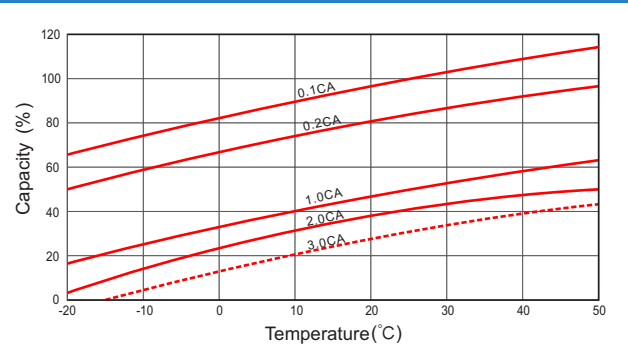
Relationship Between Charging Voltage and Temperature



Relationship of OCV And State of Charge(20°C)



Temperature Effects on Capacity



(Note) All above information shall be changed without prior notice, Producer reserves the right to explain and update the latest information