

Overview

Vision EV Series Batteries provide superior performance, capacities and reliability. Using state of art dry cell technology the EV series is designed for environmentally sensitive areas that require enhanced cycle life capabilities in commercial, industrial, residential, and private applications. The maintenance free (VRLA) construction and advanced design features makes the EV Series the definitive choice for a wide variety of markets; Solar and Renewable Energy Storage; Electric Vehicle and Golf cart; Industrial equipment, Floor Machines, Forklifts, Aerial lifts, and Robotics; Marine, RV, and no-idle solutions; Mobility and Medical Equipment; Telecom, Broadband and Cable TV; UPS systems.



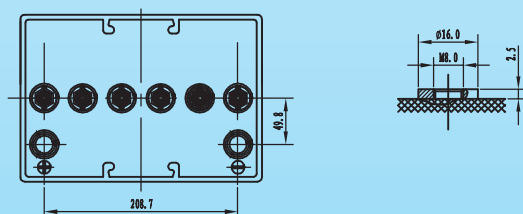
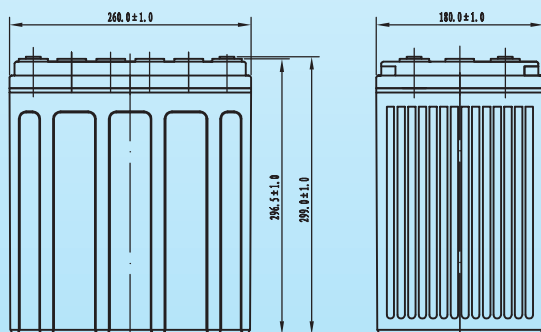
General Features

- Completely sealed valve regulated construction.
- Computer-aided 99.994% pure heavy-duty lead calcium grid designs.
- Wide range of operating temperatures (-40°C to 60°C).
- Low self discharge rates (Approx. 1%-3% monthly at 20 °C - 25°C / 68°F - 77°F).
- Multi-terminal options.
- Terminal protectors.
- Compatible with sensitive electronic equipment.
- Quality Assurance processes with ISO (4400/992579), QS and TUV Certification EMC tested, CE, ETTS Germany (G4M19906-9202-E-16). UL recognized and approved components (MH25860).
- Tellcordia and Bellcore compliant.

Dimensions and Weight

Length(mm / inch)	260 / 10.2
Width(mm / inch)	182 / 7.2
Height(mm / inch)	295 / 11.6
Total Height(mm / inch)	300 / 11.8
Approx. Weight(Kg / lbs)	41.5 / 91.5

* Weight deviation: ± 3%



Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Industry Type No.	DIN
Terminal	F12(M8)
Ampere Hour Capacity	
100 hour	124Ah
10 hour	110Ah
5 hour	95Ah
Internal Resistance	
Fully Charged at (20°C)	3.9 mOhms
Self-Discharge	
<3% of capacity per month at 20°C	
Minutes of Discharge	
@25A	230 min
@75A	55 min
R/C @25A	202
Cranking Amps	
32°F/0°C	975
0°F/-18°C	750
Operating Temperature Range	
Discharge	-20-60°C
Charge	-10-60°C
Storage	-20-60°C
Short circuit current 25°C	3100A
Charge methods: constant voltage charging at 20°C(68°F)	
Standby use	
Maximum charging current	0.3C ₁₀ A
Charge voltage	13.6-13.8V
Temperature compensation	-20mV/°C
Cyclic use	
Maximum charging current	0.3C ₁₀ A
Charge voltage	14.4-14.7V
Temperature compensation	-30mV/°C

Discharge Constant Current (Amperes at 68°F20°C)

End Point								
Volts/Cell	30min	45min	1h	3h	5h	10h	100h	
1.60V	147	107	83	33.9	21.9	11.9	1.38	
1.65V	141	103	80	32.7	21.2	11.6	1.35	
1.70V	135	99	77	31.4	20.4	11.3	1.31	
1.75V	129	94	73	30.2	19.7	11.0	1.28	
1.80V	123	90	70	29.0	19.0	10.7	1.24	

Discharge Constant Power (Watts at 68°F20°C)

End Point						
Volts/Cell	30min	45min	1h	2h	3h	5h
1.60V	259	191	148	86	65	42.3
1.65V	252	186	144	84	64	41.5
1.70V	244	181	140	82	62	40.6
1.75V	237	176	136	80	60	39.7
1.80V	229	171	132	78	59	38.9

