

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.

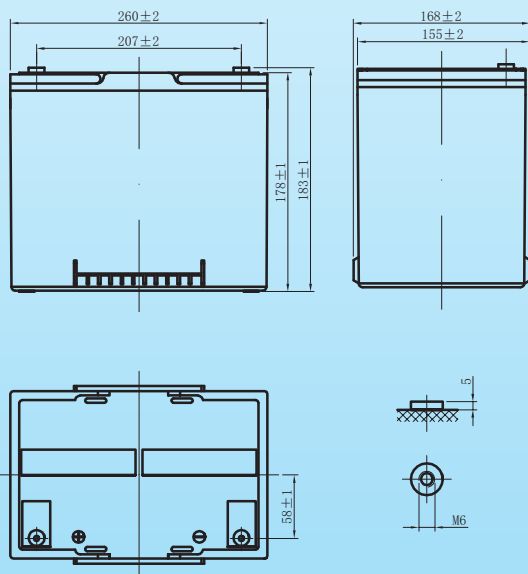
General Features

- 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)	168 / 6.6
Height(mm / inch)	178 / 7.0
Total Height(mm / inch)	183 / 7.2
Approx. Weight(Kg / lbs)	20.5 / 45.2

* Weight deviation: ± 3%



Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Industry Type No.	34
Terminal	F11(M6)
Ampere Hour Capacity	
100 hour	75.2Ah
10 hour	65Ah
5 hour	57Ah
Internal Resistance	
Fully Charged at 20°C	4.9 mOhms
Self-Discharge	
<3% of capacity per month at 20°C	
Minutes of Discharge	
@25A	85 min
@75A	22 min
R/C @25A	120
Cranking Amps	
32°F/0°C	460
0°F/-18°C	350
Operating Temperature Range	
Discharge	-20-60°C
Charge	-10-60°C
Storage	-20-60°C
Short circuit current 20°C	2500A
Charge methods: constant voltage charging at 20°C(68°F)	
Standby use	
Maximum charging current	0.3C _{10A}
Charge voltage	13.6-13.8V
Temperature compensation	-20mV/°C
Cyclic use	
Maximum charging current	0.3C _{10A}
Charge voltage	14.4-14.7V
Temperature compensation	-30mV/°C

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

End Point								
Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	140	113	79.0	58.1	46.7	19.6	12.2	6.82
1.65V	132	107	75.9	55.8	45.1	19.2	12.0	6.72
1.70V	122	102	72.8	53.6	43.4	18.8	11.7	6.61
1.75V	113	95	69.6	51.3	41.7	18.3	11.4	6.50
1.80V	104	88	66.0	49.0	40.1	17.8	11.1	6.40

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

End Point								
Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	250	202	137	101	83.7	52.0	38.0	25.1
1.65V	240	195	133	98.0	81.2	50.6	37.0	24.6
1.70V	230	188	128	95.3	78.8	49.1	35.9	24.1
1.75V	220	180	123	92.6	76.4	47.7	34.9	23.6
1.80V	209	171	118	89.0	73.8	46.2	33.8	23.1

