

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.



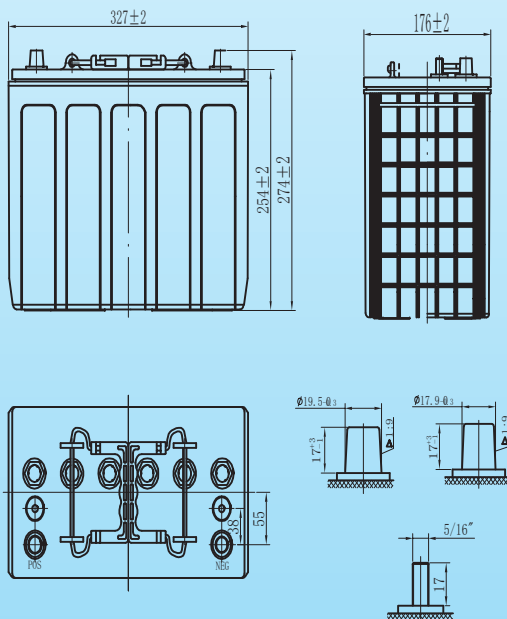
General Features

- 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)	327 / 12.9
Width(mm / inch)	176 / 6.9
Height(mm / inch)	254 / 10.0
Total Height(mm / inch)	274 / 10.8
Approx. Weight(Kg / lbs)	40.6 / 89.5

* Weight deviation: ± 3%



Battery Specification

Performance Characteristics	
Nominal Voltage	12V
Industry Type No.	12
Terminal	AM
Ampere Hour Capacity	
100 hour	128Ah
10 hour	110Ah
5 hour	98Ah
Internal Resistance	
Fully Charged at 20°C	≤3.2 mOhms
Self-Discharge	
<3% of capacity per month at 20°C	
Minutes of Discharge	
@25A	230 min
@75A	55 min
R/C @25A	310
Cranking Amps	
32°F/0°C	750
0°F/-18°C	600
Operating Temperature Range	
Discharge	-20-60°C
Charge	-10-60°C
Storage	-20-60°C
Short circuit current	3800A
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 77°F25°C)

End Point	Volts/Cell					
	1h	3h	5h	10h	100h	
1.60V	81.4	35.1	22.5	12.4	1.44	
1.65V	77.7	33.5	21.6	11.9	1.38	
1.70 V	73.9	32.0	20.7	11.4	1.33	
1.75V	70.1	30.6	19.7	11.0	1.28	
1.80V	68.6	30.0	19.4	10.8	1.25	

Discharge Constant Power (Watts at 77°F25°C)

End Point	Volts/Cell				
	45min	1h	2h	3h	5h
1.60 V	196	183	102	76	44
1.65V	191	178	100	74	43
1.70 V	184	174	97	72	42
1.75 V	179	169	95	70	41
1.80V	172	163	92	68	40



VISION GROUP
Shenzhen Center Power
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EV12-155A-AM

