EV34-65A-X

Advanced AGM Dry Cell Technology

Luxury EV Series Dry Cell 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, Fork lifts, Aerial lifts, and Robotics; Marine, RV, and no-idle solutions; Mobility and Medical Equipment; Telecom, Broadband and Cable TV; UPS systems.

Features & Benefits

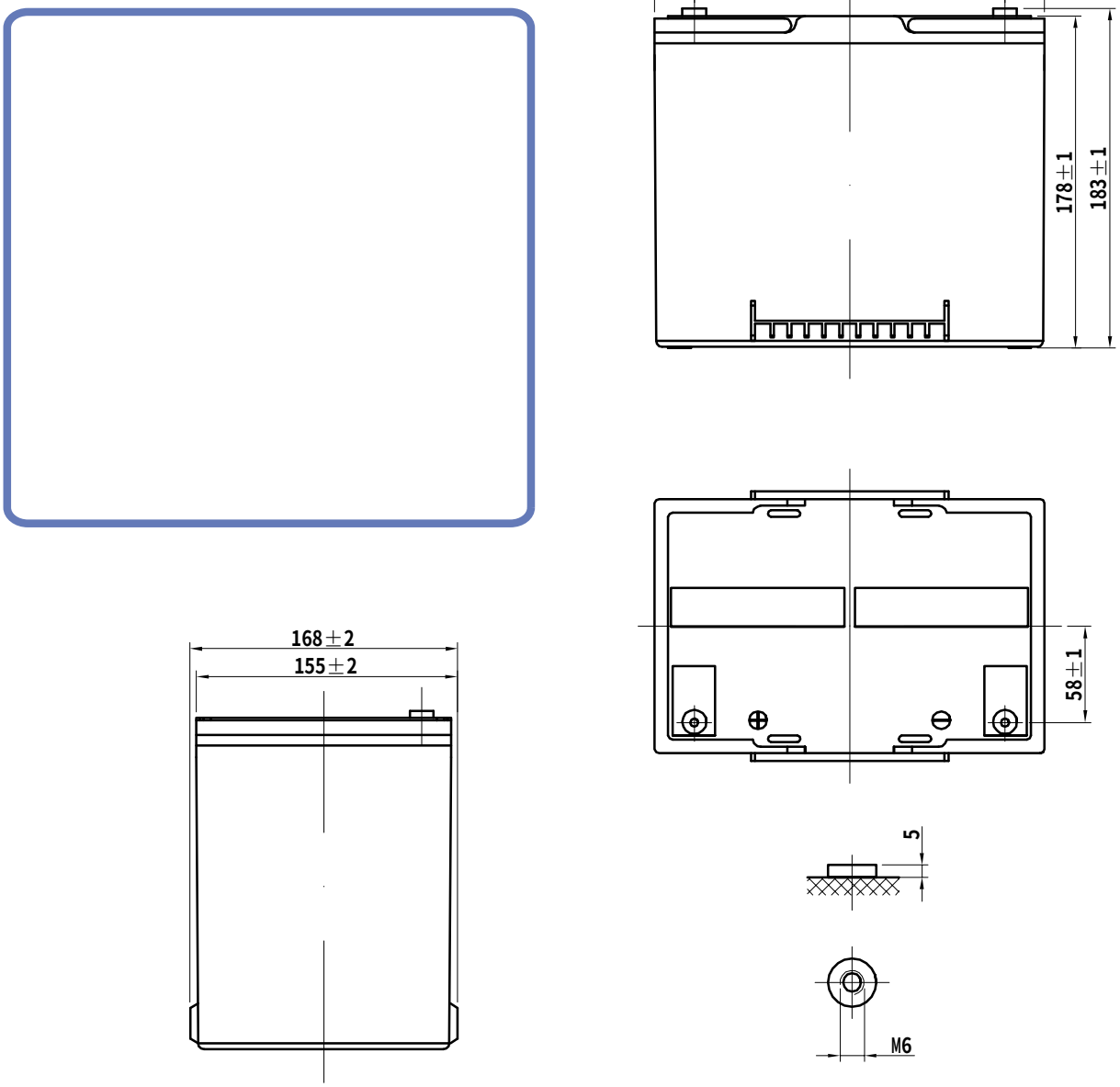
Luxury EV Series

- **Completely sealed valve regulated construction.**
- **Flame arresting pressure regulated safety sealing valves for safety, operating pressure management and protection against atmospheric contamination (excess oxygen being absorbed by negative plates).**
- **Computer-aided 99.994% pure heavy-duty lead calcium grid designs.**
- **Tank formed plates guarantees evenly formed and capacity matched plates.**
- **Anchored plate groups to guard against vibration.**
- **Double insulating Micro porous glass fiber separators.**
- **Measured and Immobilized electrolyte.**
- **Vacuum filling and weighing processes.**
- **Advanced technology for efficient gas recombination of up to 99.9% and freedom from electrolyte maintenance.**
- **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).**
- **High impact reinforced strength copolymer polypropylene cases and flat top designed covers that are rugged and vibration resistant.**
- **Thermally welded case to cover bonds that eliminate leakage.**
- **Copper and stainless steel alloy terminals and hardware.**
- **Multi-terminal options.**
- **Terminal protectors.**
- **Removable carry handles.**
- **Industry leading size and performance options.**
- **Classified as “NON-SPILLABLE BATTERY” Not restricted for Air (IATA/ICAO) Provision 67, Surface (DOT-CFR-HMR49)or Water (Classified as non-hazardous per IMDG amendment 27) transportation.**
- **Can be used in multiple orientations (upside down is not recommended).**
- **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.**

EV34-65A-X

Mechanical Characteristics

Industry Type No.	Volts	Standard (optional) Terminals	Dimensions in Inches (mm)				Approx. Weight in Lbs (Kgs)
			L in(mm)	W in(mm)	H in(mm)	TH in(mm)	
34	12	F11(M6)	10.2 (260)	6.6 (168)	7.0 (178)	7.2 (183)	45.2 (20.5)



Electrical Specifications

Ampere Hour Capacity			Minutes of Discharge		R/C	Cranking Amps	
100HR	10HR	5HR	@25A	@75A	@25A	32°F/ 0°C	0°F/ -18°C
* - Performance averages after 15 cycles							
75.2	65	57	85	22	120	460	350

Constant current discharge ratings-amperes at 20℃(68℉)

End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h	100h
1.60V	140	113	79.0	58.1	46.7	19.6	12.2	6.82	7.91
1.65V	132	107	75.9	55.8	45.1	19.2	12.0	6.72	7.79
1.70V	122	102	72.8	53.6	43.4	18.8	11.7	6.61	7.67
1.75V	113	95	69.6	51.3	41.7	18.3	11.4	6.50	7.54
1.80V	104	88	66.0	49.0	40.1	17.8	11.1	6.40	7.41

Constant power discharge ratings-watts per cell at 20℃(68℉)

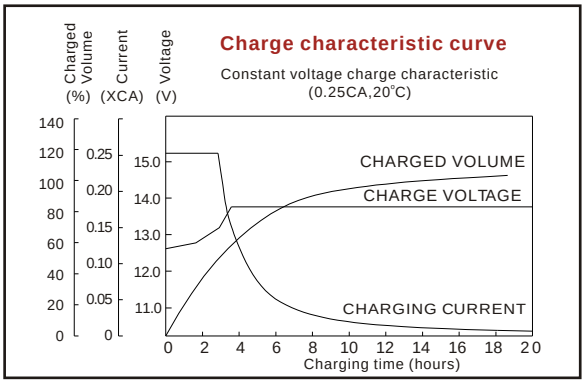
End Point Volts/Cell	5min	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	340	250	202	137	101	83.7	52.0	38.0	25.1
1.65V	325	240	195	133	98.0	81.2	50.6	37.0	24.6
1.70V	308	230	188	128	95.3	78.8	49.1	35.9	24.1
1.75V	292	220	180	123	92.6	76.4	47.7	34.9	23.6
1.80V	277	209	171	118	89.0	73.8	46.2	33.8	23.1

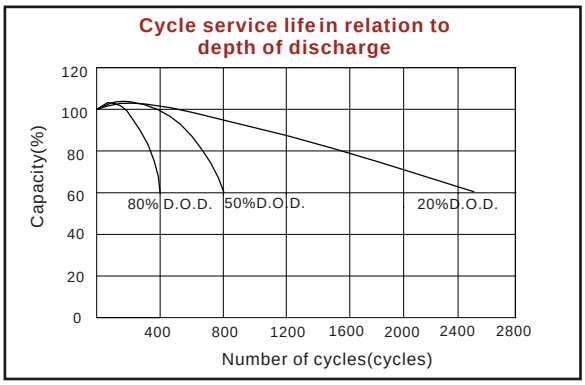
Internal resistance	Fully charged at 20℃: 4.9 mOhms		
Self discharge	<3% of capacity per month at 20℃		
Operating temperature range	Discharge	Charge	Storage
	-20～60℃	-10～60℃	-20～60℃
Short circuit current (20℃)	2500A		

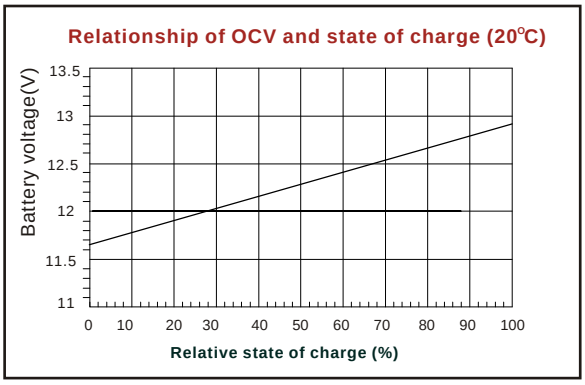
CHARGE METHODS: Constant voltage charging at 20℃(68℉)			
	Max. Charge current	Charge voltage	Temperature compensation
Standby use	$0.3C_{10}$ A	13.6--13.8V	-20mV/ ℃
Cyclic use	$0.3C_{10}$A	14.4--14.7V	-30mV/℃

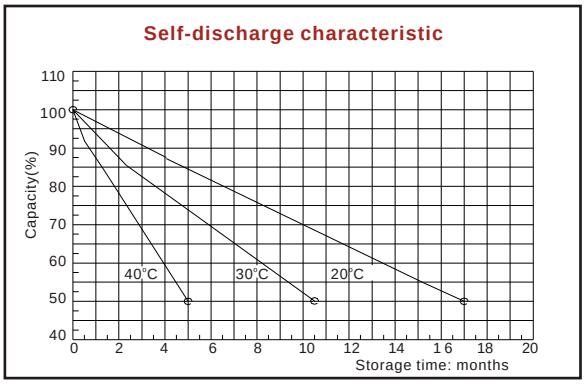
EV34-65A-X

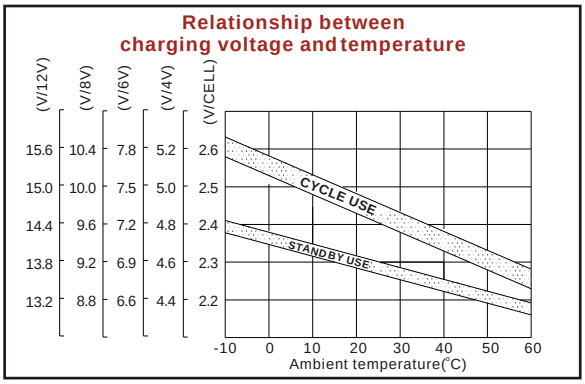
Charge / Discharge Tables & Graphs

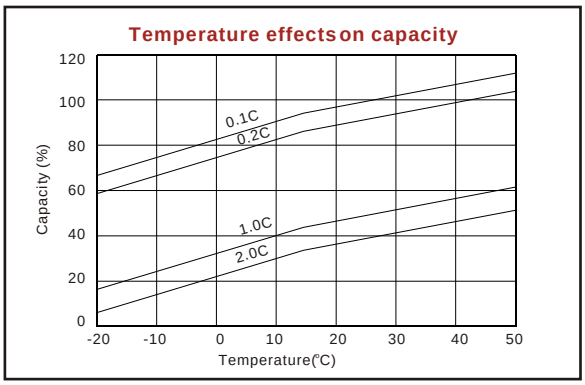












ISO9001:2008

MH25860

G4M19906-9202-E-16

E-mail: sales@luxury-system.com
Website: http://www.luxury-system.com

LUXURY SYSTEM . CO ., LTD