OREMA POWER CO.,LTD. EV65-12(12V65Ah)

EV Series Battery

OREMA EV series battery is Deep Cycle battery specially designed for frequently charge and discharging application. By using heavy duty grids, thicker plates and specially active materials, which the battery can offer 80% more cycle life than general AGM batteries, they are suitable for motive power equipments application.

Applications

- Marine and RV
- Aerial Lifts and Fork Lifts
- Golf carts and Wheelchairs
- Floor Sweepers and Electric Vehicles
- Mobility and Medical Equipments
- Solar and Wind Renewable Energy

General Features

- Non-spillable construction
- Sealed and maintenance-free
- Excellent recovery from deep discharge
- High density active materials plates
- Longer Life and low self-discharge

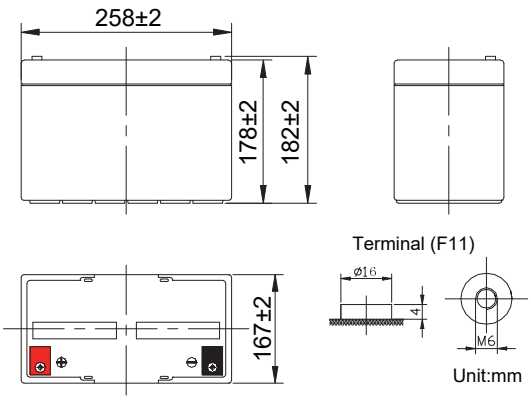
Standards

- Compliance with IEC, BS, JIS and EU standards.
- UL, CE Certified
- ISO45001,ISO9001 and ISO14001 certified production facilities

Specifications

Rated Voltage		12V
Nominal Capacity	65Ah	(C_{20},10.8V)
Approx Weight		19.5kg±3%(43lbs)
Terminal		F11
Rated Capacity(25℃)	65 Ah 55 Ah 48 Ah	(20hr,3.25A,10.5V) (5hr,11A,10.5V) (3hr,16A,10.2V)
Max.Discharge Current		650A(5s)
Max.Charge Current		16.25A
Internal Resistance(25℃)		Approx 7.0mΩ
Operating Temp.Range	Discharge Charge Storage	-20~60℃(-4~140℉) -10~50℃(14~122℉) -20~60℃(-4~140℉)
Nominal operating temperature		25±-5℃
Charge Voltage @25℃(77℉) Cycle Use	Initial Charging Current less than 16.25A. Voltage 14.4V~15.0V at 25℃(77℉).	
Charge Voltage @25℃(77℉) Standby Use	Initial Charging Current less than 16.25A. Voltage 13.5V~13.8V at 25℃(77℉).	
Temperature effects on capacity	40℃ (104℉) 25℃ (77℉) 0℃ (32℉) -15℃ (5℉)	103% 100% 86% 65%
Self Discharge(25℃)	Capacity after 3 months storage Capacity after 6 months storage Capacity after 12 months storage	91% 82% 65%

Dimensions unit:mm



Length	258±2mm (10.16 inches)
Width	167±2mm (6.57 inches)
Container Height	178±2mm (7.01 inches)
Total Height	182±2mm (7.17 inches)

Battery Construction

Component	Positive plate	Negative plate	Container	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS(UL94-HB) or FR(UL94-V0)	Rubber	Copper	Fiberglass	Sulfuric acid

PERFORMANCE SPECIFICATIONS

Amp Hours (AH)		
3 HR	5 HR	20 HR
48	55	65

Minutes of Discharge				
@25A	@56A	@75A	@85A	@100A
115	42	28	25	22

3 HR: 1.70VPC; 5 HR: 1.75VPC; 20 HR: 1.80VPC. All at 25°C/77°F

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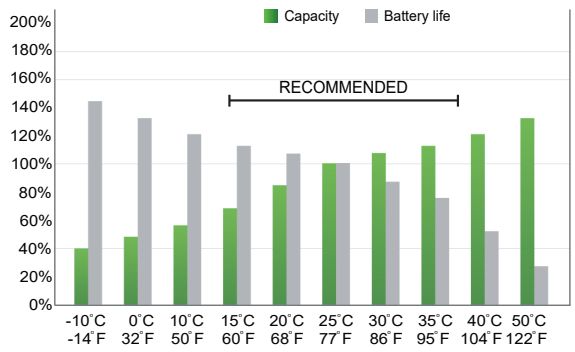
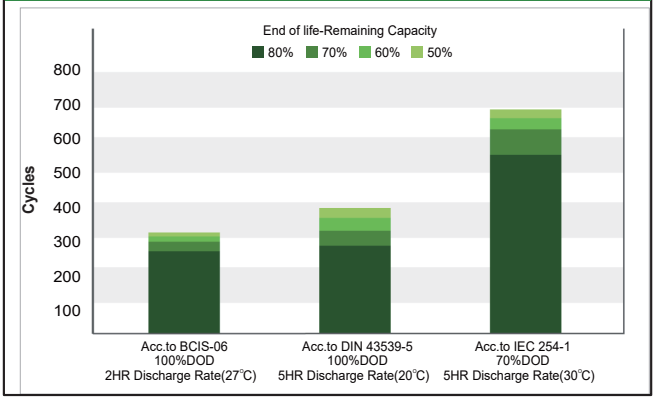
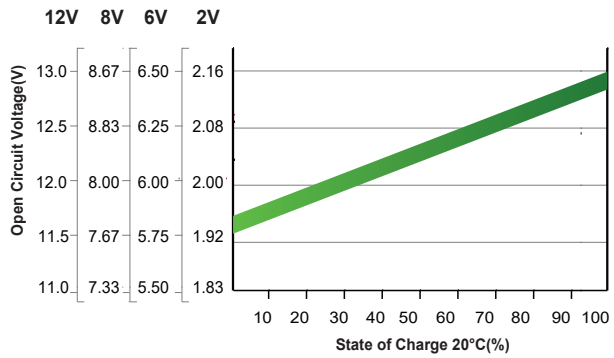
Temperature Effects on Capacity



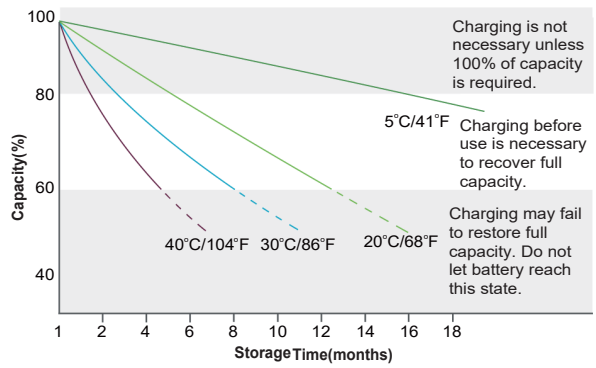
Test Standards and Cycle Life



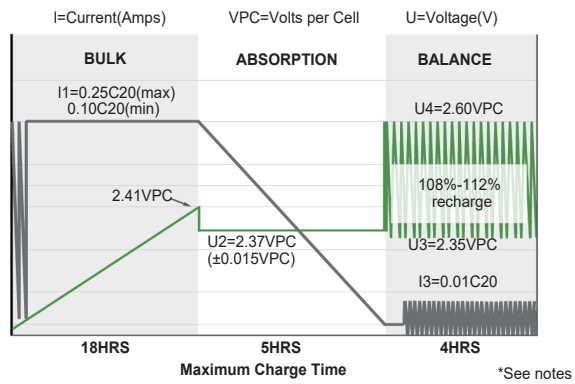
Open Circuit Voltage in Relations to SOC (20°C)



Self-Discharge Characteristics

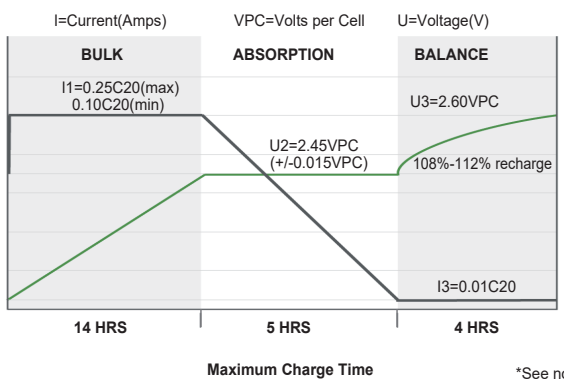


IUI Pulse Charge Profile



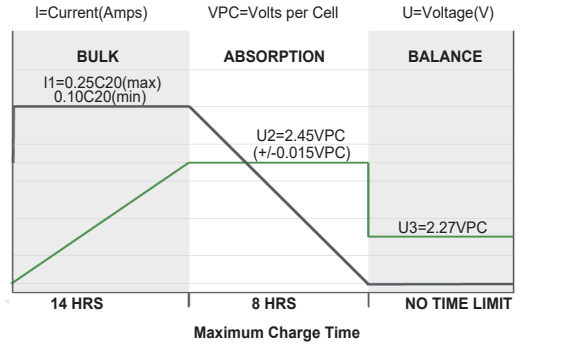
*See notes

Constant Current (IUI) Charge Profile

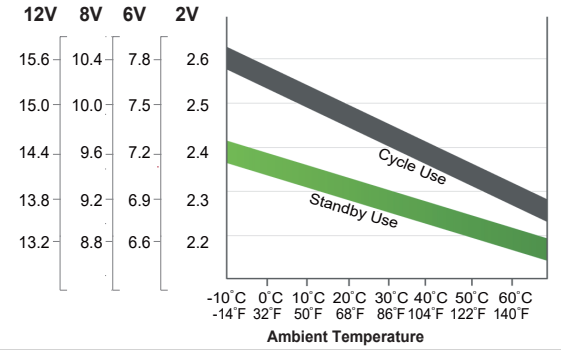


*See notes

Voltage Regulated (IUU) Charge Profile



Relations between Charge, Voltage, and Temperature



Factory address:Datang industrial park,xinfeng county,Ganzhou city Jiangxi Province,China
Sales office: RM301 No.2 Building Zhida industrial park Longping west road, Longgang district,Shenzhen China
TEL:+86-755-84898340 ***sales@oremabattery.com*** ***www.oremabattery.com***

1. Due to self-discharge characteristics of lead-acid battery technologies, batteries should be top charged within 6 months of storage to ensure optimum performance, prevent sulphation and permanent capacity loss.
2. Charge profile recommendations correspond to battery voltages at 25°C (77°F). For temperatures below, adjust +5mVPC/°C (+3mVPC/°F). Temperatures above, adjust -5mVPC/°C (-3mVPC/°F). Temperature compensated charging helps ensure optimum battery runtime and life performance.
3. Charge profile recommendations depend on application and charger. IUI (or IUI with Pulse) is appropriate for applications that require frequent and deep discharges. IUU is appropriate for applications that are on standby and cycled less frequently.
4. IUI with Pulse algorithm uses a pulse termination criterion. The finish current is pulsed on and off in order to keep the battery voltage at a minimum while still reaching target overcharge. If average VPC exceeds U4 and the charger output has been on for more than 30 seconds, the output is shut off until VPC falls to U3.
5. IUI Charge Profile (if applicable), may have a continuous float phase added (2.27VPC).