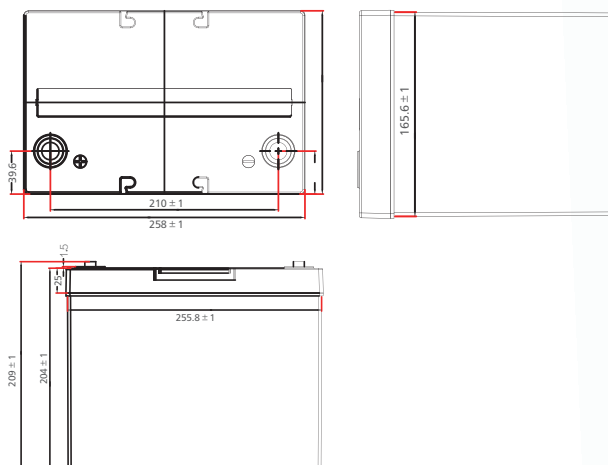


# EV24

Vision's AGM wheelchair batteries provide superior performance and reliability. Adapting state of the art AGM dry cell technology, and special deep cycle chemistry on the battery plates, Vision's AGM wheelchair batteries give your wheelchair a longer overall run time compared with other normal AGM batteries.



## Features and Benefits:

- Excellent cycle life- Can be used over 650 times with 50% of the power drained each time.
- Specially designed for wheelchairs- High density lead paste, special chemistry formula, and stronger electrolyte allow a much longer life when batteries are discharged on a daily basis.
- Improved battery consistency- This allows the maximum capacity output of the battery bank, with minimum power loss.
- Maintenance-free- One never needs to add water.
- Non-Spillable Battery- Can easily be shipped as a non-hazardous material.



## Mechanical Characteristics

Industry Type No.	24
Length(mm/inch )	258/10.1
Width(mm/inch)	169/6.6
Height(mm/inch)	204 /8.0
Total Height(mm/inch)	209/8.2
Approx. Weight (kg /lbs)	24 0/52.9
Terninal	M6
Container material	ABS
Cells	6 cell
Nominal Voltage	12 V

## Electrical Characteristics

Nominal Capacity	75Ah@20 hour rate F.V. (1.75V/Cell)	
Internal Resistance (Approx. )	≤Fully Charged battery (25°C) :4.5mOhms	
Self Discharge	3% of capacity per month@68°F/20°C	
Cranking Amps	480A@32°F/0°C	373A@32°F/-18°C
Max. Discharge	600A(5s)	
Reserve Capacity (80°F/27°C)	@25A F.V.(1.75V/Cell)	125Min
	@75A F.V.(1.75V/Cell)	35Min
Charging(25°C) (Constant Voltage)	Cycle use	Initial Charging Current: 22.7A,2.40-2.45VPC
	Float use	2.20-2.30VPC

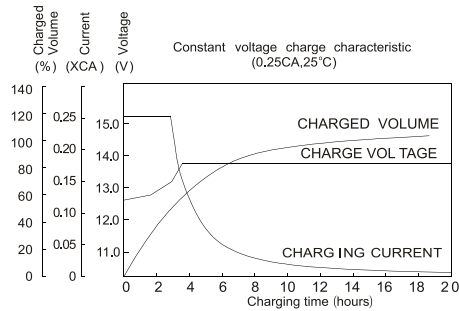
## Electrical Characteristics

Final voltage 1.75V/Cell	Amp Hours(AH)@77°F (25°C)							Minutes of Discharge@80°F (27°C)	
	20HR	10HR	5HR	3HR	2HR	1HR		@25A	@ 75A
	75	72	61	57	54	48		125	35

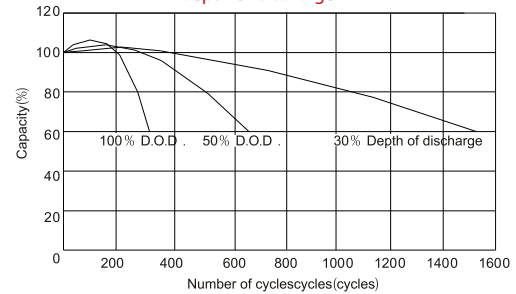
Updated Oct. 10,2016

## Charge / Discharge Tables & Graphs

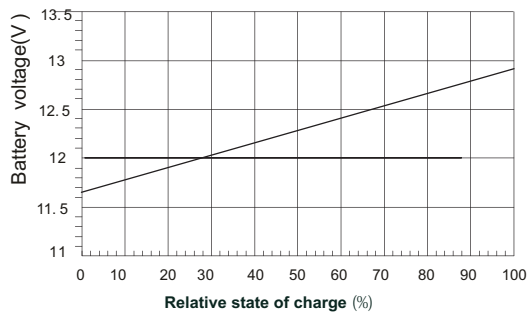
Charge characteristic curve



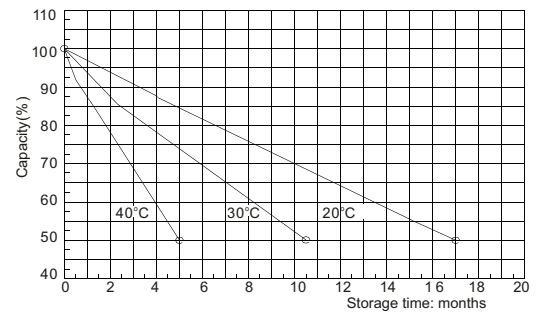
Cycle service life in relation to depth of discharge



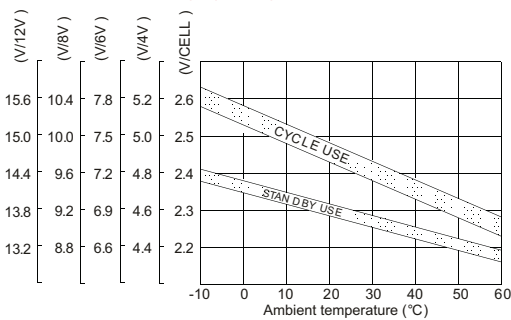
Relationship of ocv and state of charge (25°C)



Self-discharge characteristic



Relationship between charging voltage and temperature



Temperature effects on capacity

