

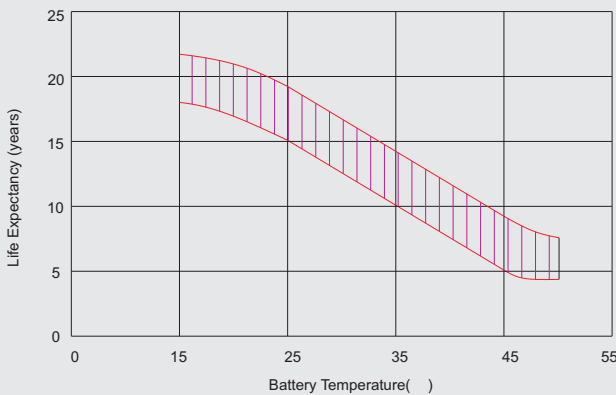


# OPzV12-200

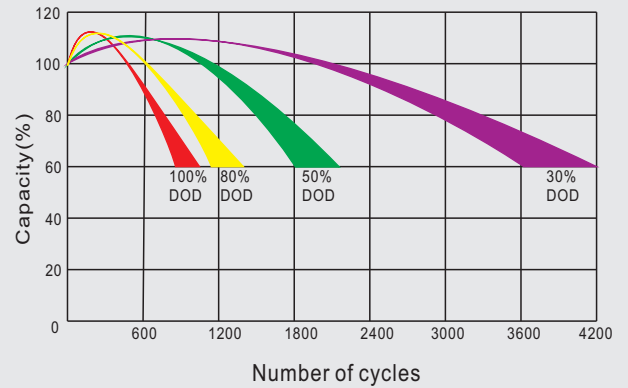
12V200Ah



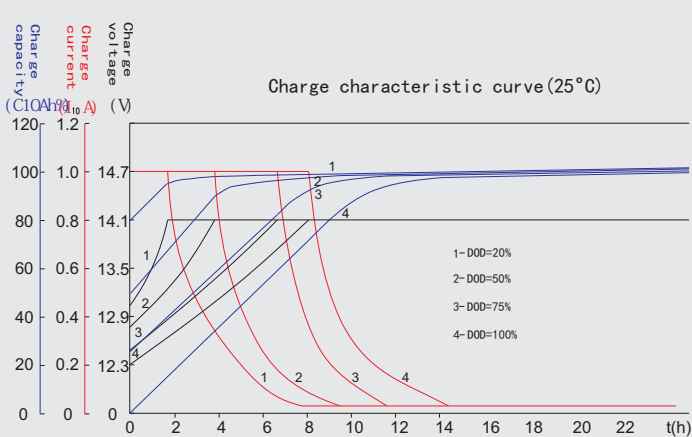
## Effect of temperature on long term float life



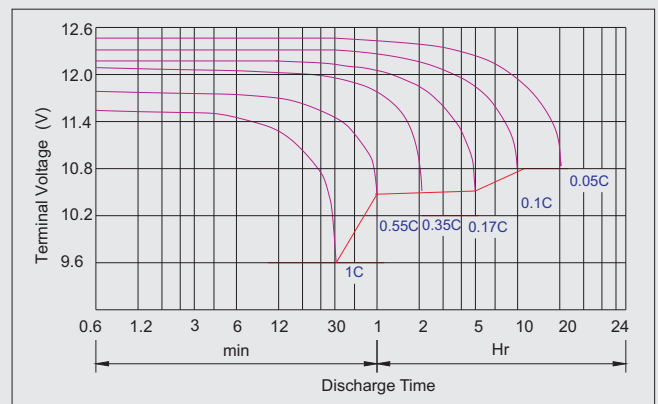
## Life characteristics of cyclic use



## Charge characteristic Curve for cyclic use



## Discharge characteristic Curve



### Long time discharge capacity for solar/wind application

Model	Capacity	C24 (Ah)	C48 (Ah)	C72 (Ah)	C100 (Ah)	C120 (Ah)	C240 (Ah)
		F.V=1.85VPC					
OPzV12-200		201.4	212.8	223.4	228.0	232.6	246.2

### Capacity factors vs temperature (OPzV series)

Temperature	-30°C	-20°C	-10°C	0°C	10°C	20°C	25°C	30°C	40°C	45°C	50°C
Capacity	60%	75%	83%	89%	92%	99%	100%	103%	105%	107%	109%

## Discharge Current VS. Final Voltage

Discharge current	Final voltage (V)
I <sub>dis</sub> 0.1I <sub>10</sub>	1.90
0.1I <sub>10</sub> I <sub>dis</sub> I <sub>10</sub>	1.85
I <sub>10</sub> I <sub>dis</sub> 4I <sub>10</sub>	1.80
4I <sub>10</sub> I <sub>dis</sub> 6I <sub>10</sub>	1.75
6I <sub>10</sub> I <sub>dis</sub> 10I <sub>10</sub>	1.70
I <sub>dis</sub> 15I <sub>10</sub>	1.60

Charge the batteries at least once every one year, if they are stored at 25°C.

Charging Method:

Constant Voltage	-0.2Cx2h+14.1~14.4V, 24h, Max. Current 0.2CA
Constant Current	-0.2Cx2h+0.1CAx12h

## Maintenance & Cautions

### Float Service:

Every month, recommend inspection every battery voltage.

Every three months, recommend equalization charge for one time.

Equalization charge method:

Discharge: 40~50% rate capacity discharge.

Charge: Max. current 0.2CA, constant voltage 14.1-14.4V charge 24h.

Effect of temperature on float charge voltage: -3mV/°C/Cell.

Service life will be directly affected by the number of discharge

cycles, depth of discharge, ambient temperature and charging method.