

DESCRIPTION

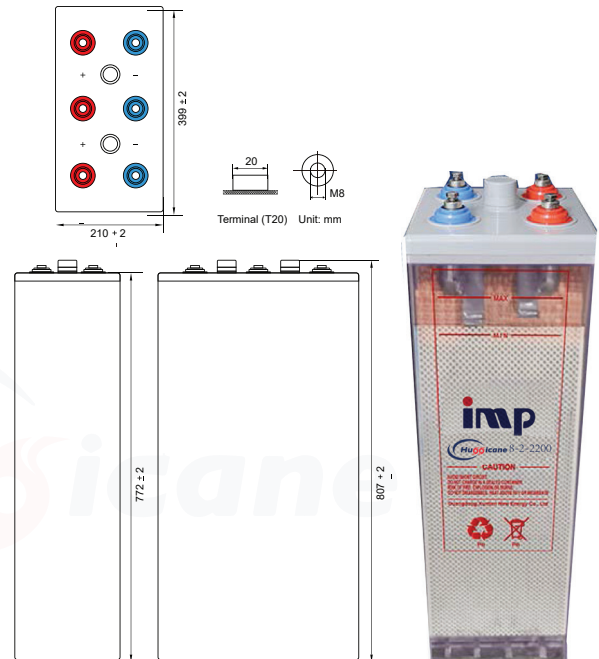
The battery is manufactured with PVC-SiO₂ separator and colloidal or fumed silica. The tubular positive plate and pasted negative plate is applied. The batteries use silica gel to immobilize the electrolyte inside the battery. The proven silica gel technology improves battery cycle life and performance at various ambient temperatures.

GENERAL FEATURE

- The battery has a long service life, under float charging, ambient temperature 25 °C, it can operate 15-20 years.
- Excellent Recovery from deep discharge and good deep discharge cycle capability .
- The battery has a low self-discharge ,keep over 60% of the rated capacity after 2 years stored under 25 °C.
- High Reliability and Quality.

SPECIFICATION

Nominal voltage	2V
Number of cell	1
Length(mm/inch)	399/15.71
Width(mm/inch)	210/8.27
Height(mm/inch)	772/30.39
Total Height(mm/inch)	807/31.77
Approx.Weight(kg/lbs)	149.5/329.59



BATTERY CONSTRUCTION

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Tubular	Lead	ABS	ABS	Rubber	Copper	PVC-Si O ₂	Fumed silicon

PERFORMANCE CHARACTERISTICS

Capacity 77°F(25 °C)	100 hour rate (27.38A 1.85V)	2738Ah
	48 hour rate (56.08A 1.85V)	2692Ah
	10 hour rate (220A 1.8V)	2200Ah
	3 hour rate (550A 1.8V)	1650Ah
Internal Resistance	Full charged battery 77°F(25 °C): 0.22m Ω	
Operating Temperature Range	Discharge: -20~65 °C	
	Charge: -10~65 °C	
	Storage: -20~65 °C	
Self-Discharge	1.5% of capacity declined per month at 20 °C (average)	
Charge (Constant Voltage)	Float: 2.23 ~ 2.25V/77°F(25 °C)	
	Cycle: 2.38 ~ 2.42V/77°F(25 °C) Max Current: 550A	

PERFORMANCE REPORT

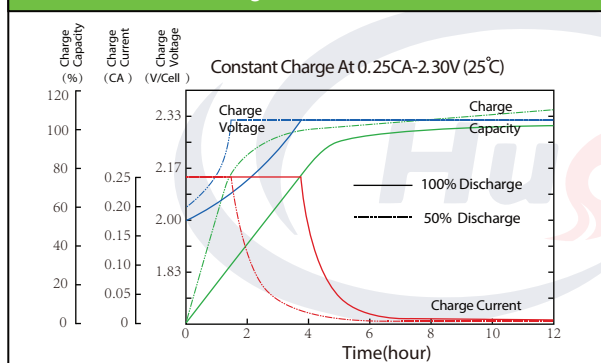
Discharge Constant Current(Amperes at 77°F/25 °C)

End	15mi	30mi	1h	2h	3h	5h	8h	10h	20h
1.67V	---	3349	2464	1539	1190	808	548	461	124
1.70V	---	3253	2411	1515	1172	799	542	458	123
1.75V	---	2956	2273	1443	1122	768	536	452	122
1.80V	---	2718	2130	1411	1103	754	527	447	120
1.85V	---	2356	1903	1291	1017	703	494	419	112

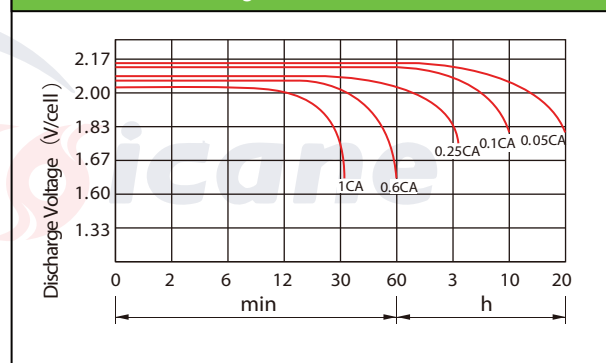
Discharge Constant Power(Watts at 77°F/25 °C)

End	15mi	30mi	1h	2h	3h	5h	8h	10h	20h
1.67V	---	1769	1304	806	618	416	278	233	124
1.70V	---	1703	1269	789	606	410	274	231	123
1.75V	---	1530	1188	750	578	392	271	228	122
1.80V	---	1393	1106	728	567	384	266	225	120
1.85V	---	1195	982	663	521	358	249	210	112

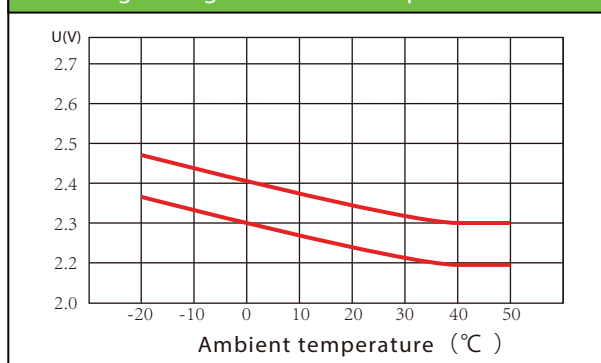
Charge Characteristic



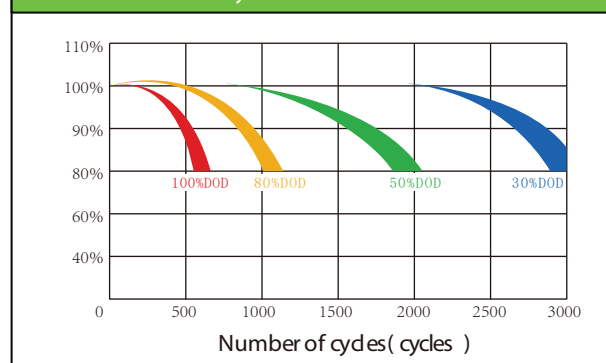
Discharge Characteristic (25°C)



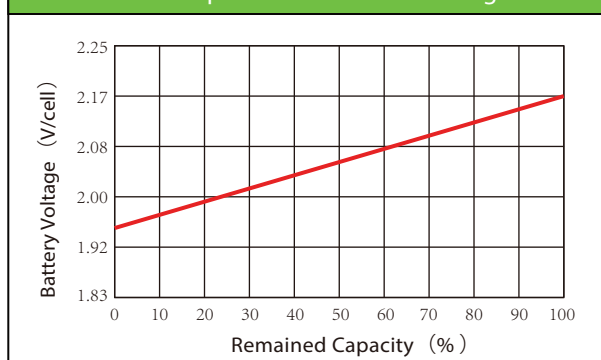
Charge voltage VS ambient temperature curve



Cycle life of DOD



Relationship of OCV and state of charge



Self-discharge characteristics

