



General Features

- High corrosion resistance: Pb-Ca multi-alloy grid
- High energy density and power density
- Optimized instant high-current discharge capability
- Excellent charge acceptance
- Excellent deep-cycle discharge capability
- Strong high and low temperature performance
- Precision sealing technology
- Long service life



RoHS



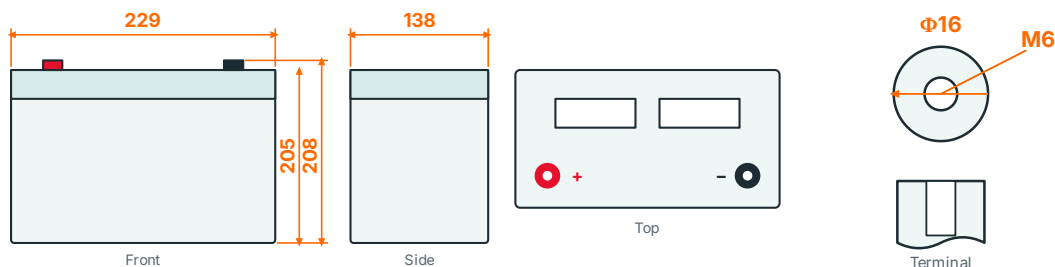
Applications

- UPS / EPS
- Power systems
- Telecommunications systems
- Emergency lighting, auto control systems
- Solar / wind generating storage (cyclic)
- Other general purpose

Specification

Nominal Voltage	12 V
Nominal Capacity	55 Ah
Design Life	10 years
Terminal	M6
Approx. Weight	Approx. 17.5 kg (38.6 lbs)
Container Material	ABS
Rated Capacity	55.0 Ah 10 Hour Rate 5.50 A to 10.8 V
	44.4 Ah 3 Hour Rate 14.8 A to 10.8 V
	36.0 Ah 1 Hour Rate 36.0 A to 10.5 V
Internal Resistance	Fully charged at 25°C: 8.6 mΩ
Max. Discharge Current	660 A (5 s)
Operating Temperature	Discharge -20 ~ 50°C (-4 ~ 122°F)
	Charge -20 ~ 50°C (-4 ~ 122°F)
	Storage -20 ~ 50°C (-4 ~ 122°F)
Charge Method (25°C)	Charge current Max. 13.8 A; recom. 5.5 A
	Float 13.5-13.8 V, recom. 13.8 V (-18 mV/°C)
	Equalize 13.8-14.1 V, recom. 14.1 V (-24 mV/°C)
	Cycle 14.4-15.0 V, recom. 14.7 V (-30 mV/°C)
Self Discharge	3% of capacity declined per month at 25°C

Dimensions 229 (L) × 138 (W) × 205 (H) × 208 (TH) · Unit: mm

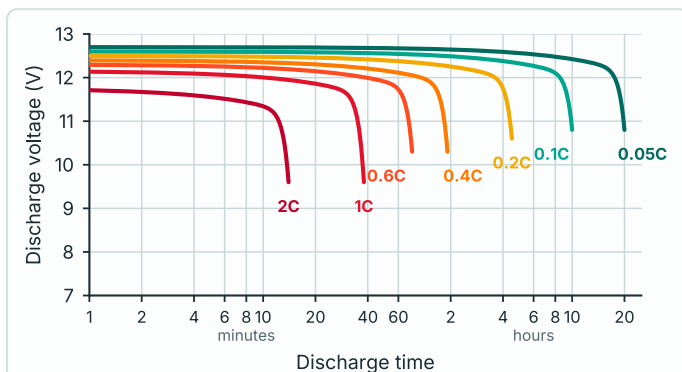


Constant Current Discharge Characteristics

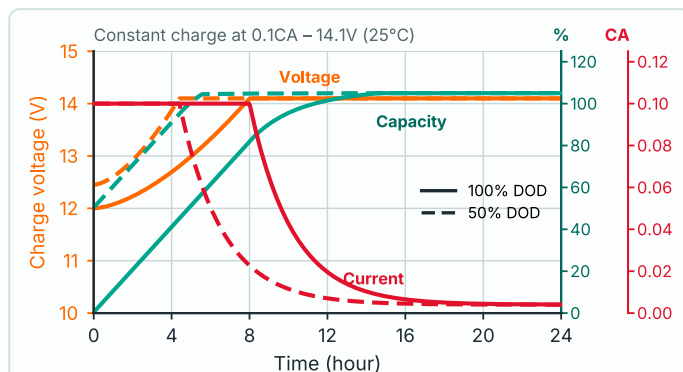
Unit: A (25°C, 77°F)

FV / Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	194	104	63.3	37.0	21.2	15.4	10.3	6.79	5.72	3.00
1.65V	188	101	62.3	36.8	21.1	15.3	10.2	6.74	5.67	2.99
1.70V	180	98.8	61.2	36.5	21.0	15.0	10.1	6.68	5.61	2.97
1.75V	166	95.6	60.6	36.0	20.6	14.9	10.0	6.63	5.56	2.96
1.80V	149	89.1	58.0	35.1	20.3	14.8	9.76	6.58	5.50	2.94
1.85V	133	79.4	52.9	32.5	19.2	13.9	9.27	6.30	5.34	2.89

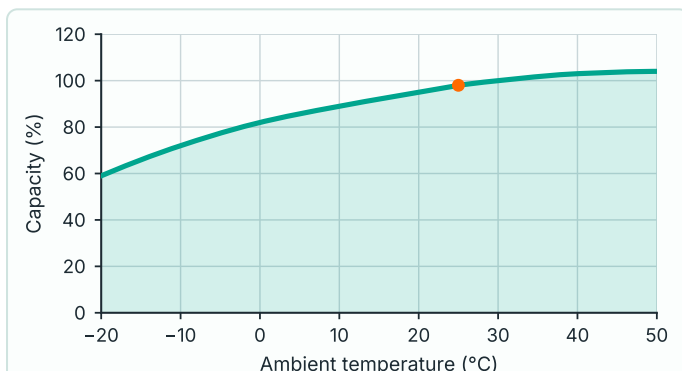
Discharge characteristic



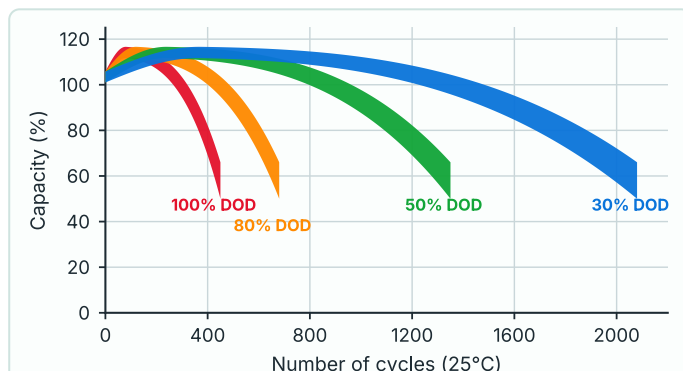
Charging characteristic



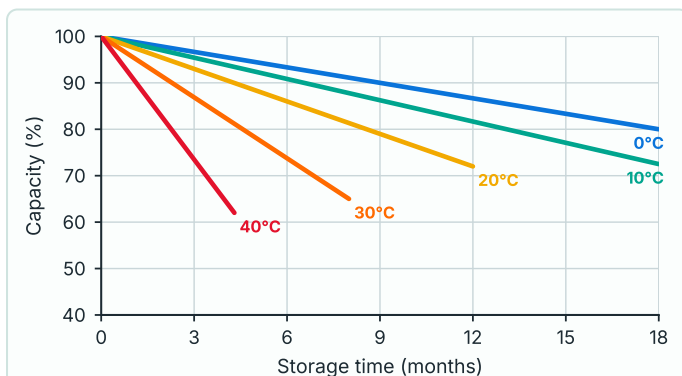
Effect of temperature on capacity



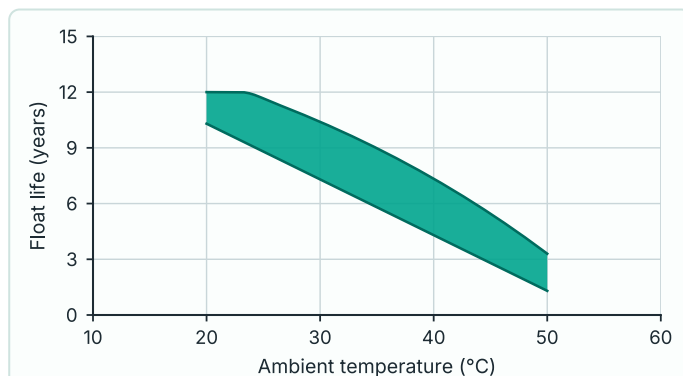
Effect of discharge depth on cycle life



Self-discharge curves



Effect of temperature on float life



Constant Power Discharge Characteristics

Unit: W/cell (25°C, 77°F)

FV / Time	5min	15min	30min	1h	2h	3h	5h	8h	10h	20h
1.60V	325	183	115	70.0	40.2	29.3	19.6	13.2	11.0	5.94
1.65V	313	180	114	69.5	40.0	28.9	19.5	13.1	10.9	5.91
1.70V	311	178	114	68.9	39.9	28.8	19.4	13.0	10.8	5.89
1.75V	290	177	113	68.4	39.7	28.6	19.2	12.9	10.7	5.86
1.80V	266	167	110	67.9	39.6	28.5	19.0	12.8	10.6	5.83
1.85V	238	150	101	63.0	37.8	27.1	18.2	12.4	10.4	5.78

