



Applications

- > UPS/EPS
- > Power systems
- > Telecommunications system
- > Emergency lighting, Auto control system
- > Solar/wind generating storage cyclic
- > Other general purpose

General Features

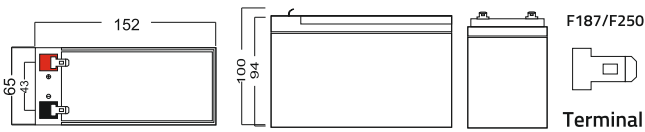
- > High corrosion resistant performance: Pb-Ca multi-alloy grid
- > High energy density and power density
- > Optimized capability of instant high-current discharging
- > Excellent charge acceptance ability
- > Strong high and low temperature performance
- > Precision sealing technology

Specification

Nominal Voltage	12V		
Nominal Capacity	7.0Ah		
Design life	5 years		
Terminal	F187/F250		
Approx. Weight	Approx 2.02kg (4.45lbs)		
Container Material	ABS		
Rated Capacity	7.00Ah	20Hour Rate	(0.35A to 10.5V)
	5.43Ah	3Hour Rate	(1.81A to 10.5V)
	4.62Ah	1Hour Rate	(4.62A to 9.60V)
Internal resistance	Full charged at 25°C: 30.0 mΩ		
Max. Discharge Current	97.5A (5 sec)		
Operating Temperature	Discharge: -15~50°C (5~122°F)		
	Charge: -10~50°C (14~122°F)		
	Storage: -20~50°C (-4~122°F)		
Charge current:	Max. 1.95A; Recom. 0.70A		
Charge Method (25°C)	Float Charge: 13.5-13.8V, recom. 13.5V(-18mV/°C)		
	Equalize charge: 13.8-14.1V, recom. 14.1V(-24mV/°C)		
	Cycle charge: 14.4-15.0V, recom. 14.4V(-30mV/°C)		
Self discharge	3% of capacity declined per month at 25°C		



Dimension: 152(L)×65(W)×94(H) ×100(TH) Unit: mm



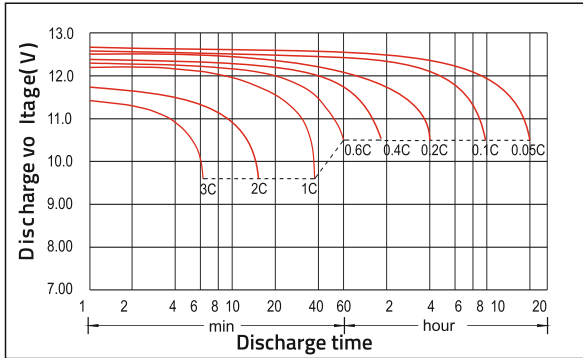
Constant Current Discharge Characteristics Unit: A (25°C, 77°F)

FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	27.7	18.1	13.5	8.86	4.62	2.65	1.93	1.55	1.32	0.868	0.693	0.371
1.65V	27.5	17.4	12.4	8.41	4.34	2.54	1.88	1.50	1.29	0.854	0.686	0.364
1.70V	22.5	16.3	11.6	8.15	4.20	2.49	1.84	1.42	1.27	0.840	0.672	0.357
1.75V	20.9	15.5	10.8	7.96	4.05	2.43	1.81	1.40	1.22	0.819	0.658	0.350
1.80V	19.3	14.6	10.0	7.70	3.91	2.37	1.72	1.37	1.17	0.798	0.644	0.336

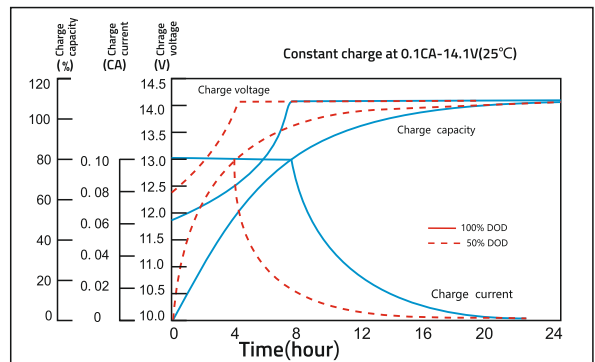
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	52.0	32.7	24.7	15.0	8.47	4.96	3.65	2.93	2.49	1.64	1.34	0.735
1.65V	48.0	30.9	23.2	14.9	7.97	4.77	3.55	2.84	2.44	1.61	1.32	0.715
1.70V	43.9	30.0	22.2	14.8	7.72	4.68	3.49	2.70	2.37	1.60	1.31	0.709
1.75V	39.8	29.1	21.4	14.7	7.50	4.57	3.44	2.66	2.32	1.53	1.28	0.694
1.80V	35.7	28.1	20.4	14.5	7.40	4.54	3.35	2.64	2.26	1.48	1.25	0.690

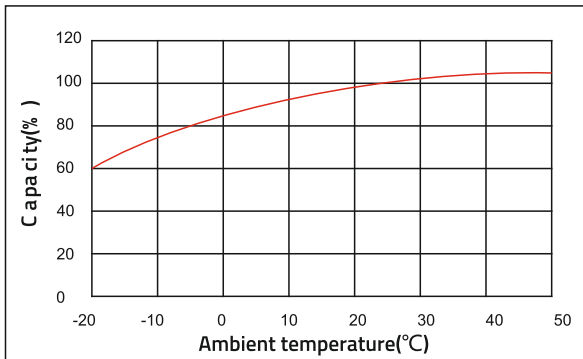
Discharge characteristic



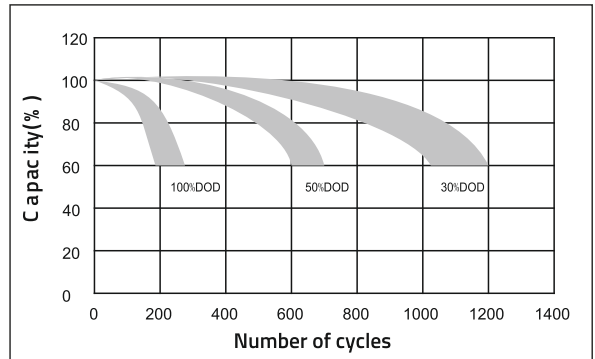
Charging characteristic



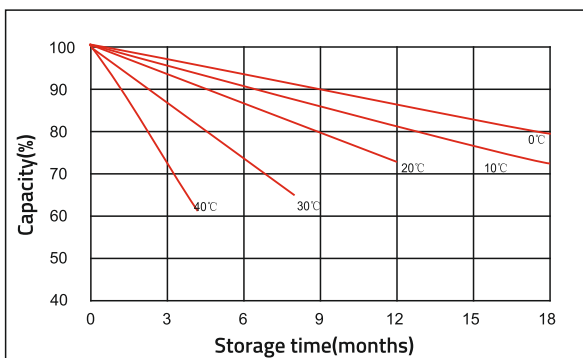
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

