



Applications

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

Specification

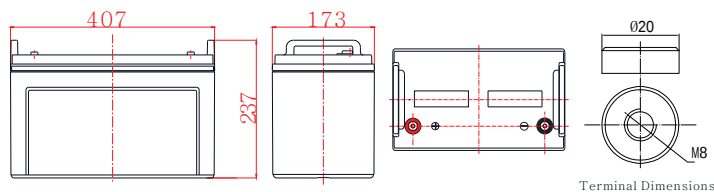
Nominal Voltage	12V
Nominal Capacity	120Ah
Design life	10 years
Terminal	M8
Approx. Weight	Approx 35.0kg (77.2lbs)
Container Material	ABS
Rated Capacity	120Ah 10Hour Rate (12.0A to 10.8V)
	97.5Ah 3Hour Rate (32.5A to 10.2V)
	73.8Ah 1Hour Rate (73.8A to 9.6V)
Internal resistance	Full charged at 25°C: 4.5 mΩ
Max. Discharge Current	1440A(5S)
Operating Temperature	Discharge: -20 ~50°C (-4 ~ 122°F)
	Charge: -20 ~50°C (-4 ~ 122°F)
	Storage: -20 ~50°C (-4 ~ 122°F)
Charge current:	Max. 30A ; Recom.12A
Charge Method (25 °C)	Float Charge:13.5-13.8V,recom.13.8V(-18mV/ °C)
	Equalize charge:13.8-14.1V,recom.14.1V(-24mV/ °C)
	Cycle charge:14.4-15.0V,recom.14.7V(-30mV/ °C)
Self discharge	3% of capacity declined per month at 25°C

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
- › Excellent deep cycle discharge capability
- › Strong high and low temperature performance
- › Precision sealing technology
- › Long life



Dimension:407(L)×173(W)×237(H)×237(TH) Unit: mm



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

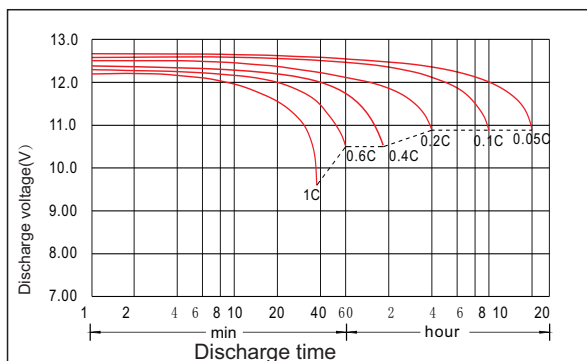
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	306	268	203	120	94.8	73.8	50.7	46.5	33.4	24.2	22.4	17.9	14.7	12.4	6.38
1.65V	301	260	193	118	93.6	73.5	50.1	45.9	33.1	23.9	22.2	17.7	14.6	12.3	6.29
1.70V	289	258	190	116	92.4	72.9	49.5	45.3	32.5	23.7	22.0	17.6	14.5	12.2	6.20
1.75V	266	248	188	115	91.8	72.0	49.2	44.7	32.2	23.5	21.8	17.4	14.4	12.1	6.11
1.80V	238	230	172	110	88.2	70.0	48.6	43.8	31.9	23.3	21.1	17.2	14.2	12.0	6.02
1.85V	212	214	156	100	81.1	65.0	47.1	41.7	30.1	22.6	20.1	16.7	13.7	11.7	5.87

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

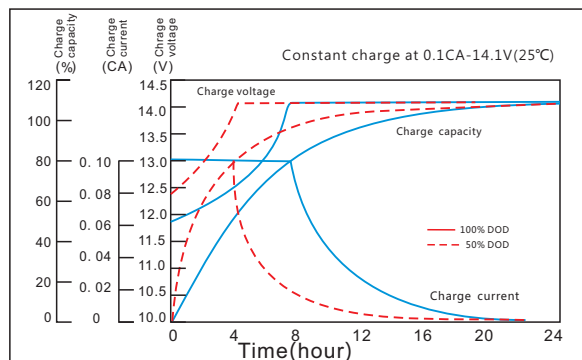
FV/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	520	469	365	216	175	141	98.3	90.2	64.7	46.9	43.5	34.9	28.6	24.2	12.5
1.65V	512	455	347	212	173	140	97.1	89.0	64.2	46.4	43.1	34.6	28.5	24.0	12.3
1.70V	491	452	343	209	171	139	96.0	87.8	63.0	45.9	42.6	34.1	28.3	23.8	12.1
1.75V	452	434	339	207	170	138	95.4	86.6	62.4	45.6	42.2	33.8	28.1	23.6	12.0
1.80V	404	403	310	198	163	134	94.2	85.0	61.9	45.2	41.0	33.3	27.8	23.4	11.8
1.85V	363	377	282	182	151	125	91.8	81.4	58.7	44.0	39.2	32.5	26.8	22.9	11.6

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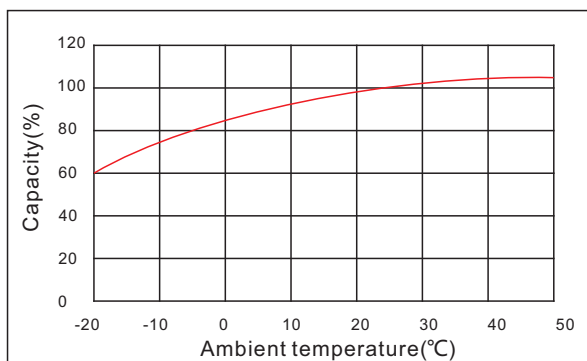
Discharge characteristic



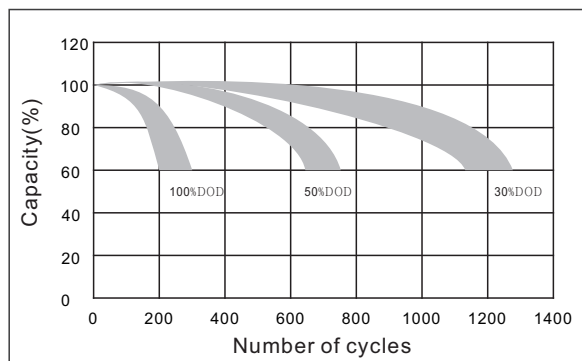
Charging characteristic



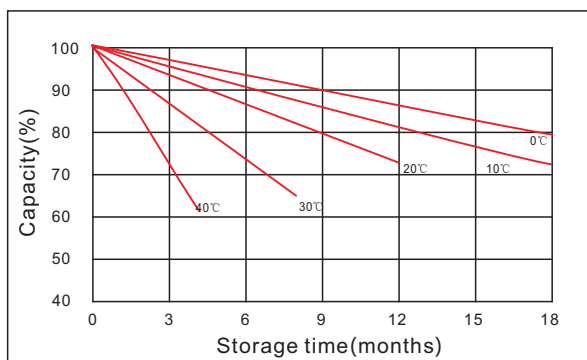
The effect of temperature on capacity



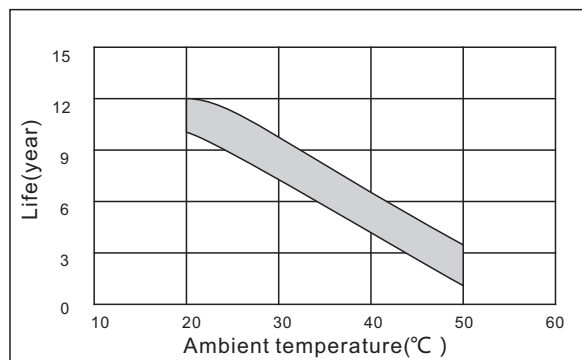
The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life



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