

Applications

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

General Features

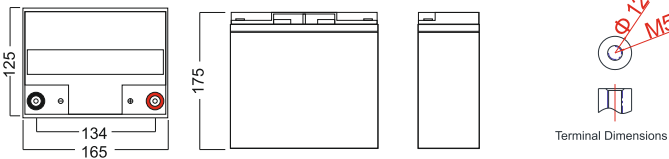
- › High corrosion resistant performance: Pb-Ca multi-alloy grid
- › High energy density and power density
- › Optimized capability of instant high-current discharging
- › Excellent charge acceptance ability
- › Strong high and low temperature performance
- › Precision sealing technology

Specification

Nominal Voltage	12V	
Nominal Capacity	24.0Ah	
Design life	5 years	
Terminal	M5	
Approx. Weight	Approx 7.50kg (16.5lbs)	
Container Material	ABS	
Rated Capacity	24.0Ah	20Hour Rate (1.20A to 10.5V)
	18.7Ah	3Hour Rate (6.22A to 10.5V)
	15.8Ah	1Hour Rate (15.8A to 9.60V)
Internal resistance	Full charged at 25 °C: 16.0 mΩ	
Max. Discharge Current	360A (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. 7.2A; Recom. 2.4A	
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: 165(L)×125(W) ×175(H) ×175(TH) Unit: mm



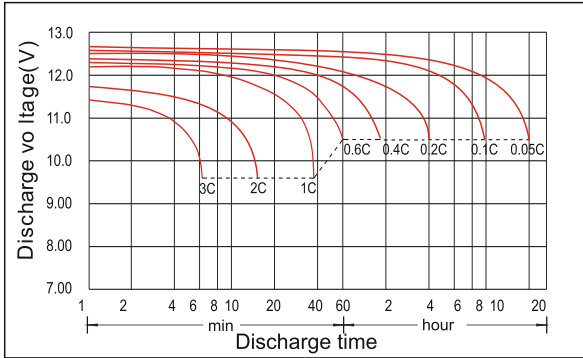
Constant Current Discharge Characteristics Unit: A (25 °C, 77 °F)

FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	95.0	62.2	46.3	30.4	15.8	9.07	6.62	5.30	4.51	2.98	2.38	1.27
1.65V	94.3	59.5	42.5	28.8	14.9	8.71	6.43	5.14	4.42	2.93	2.35	1.25
1.70V	77.3	55.9	39.6	27.9	14.4	8.54	6.31	4.87	4.37	2.88	2.30	1.22
1.75V	71.8	53.3	37.0	27.3	13.9	8.33	6.22	4.80	4.18	2.81	2.26	1.20
1.80V	66.0	50.2	34.3	26.4	13.4	8.11	5.88	4.70	4.01	2.74	2.21	1.15

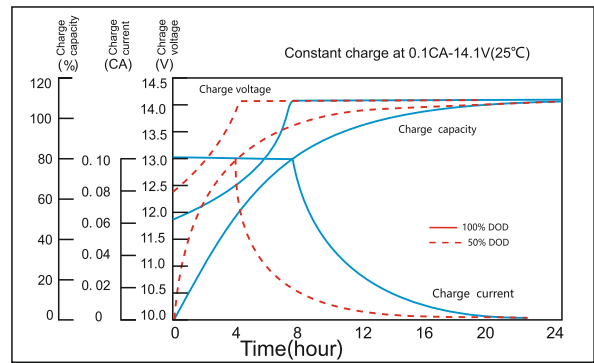
Constant Power Discharge Characteristics Unit: W/cell(25 °C, 77 °F)

FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	178	112	84.8	51.3	29.0	17.0	12.5	10.0	8.52	5.62	4.60	2.52
1.65V	164	106	79.6	50.9	27.3	16.4	12.2	9.72	8.36	5.53	4.52	2.45
1.70V	150	103	76.0	50.8	26.5	16.0	12.0	9.24	8.12	5.48	4.48	2.43
1.75V	136	100	73.2	50.2	25.7	15.7	11.8	9.12	7.96	5.25	4.38	2.38
1.80V	122	96.4	70.0	49.9	25.4	15.6	11.5	9.04	7.76	5.08	4.29	2.36

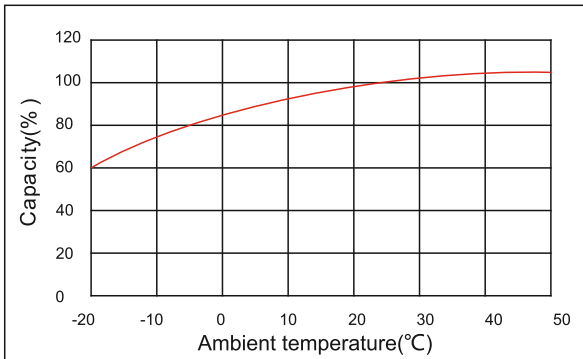
Discharge characteristic



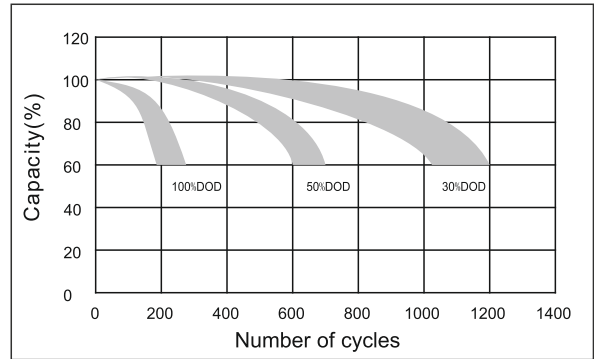
Charging characteristic



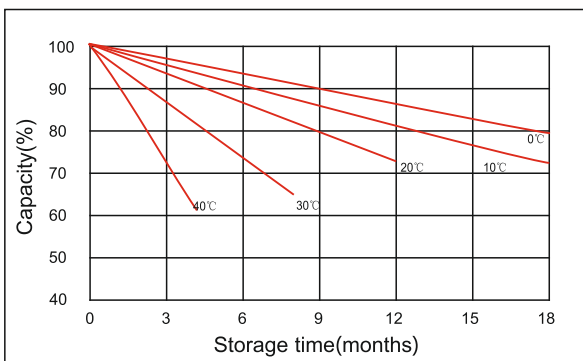
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



The effect of temperature on float life

