

NP12170B1



Applications

- > EPS/Power systems
- > Power tools
- > Security system/Fire alarm
- > Factory automation equipment
- > Emergency lighting/Auto control system
- > Portable electric device
- > Other general purpose

General Features

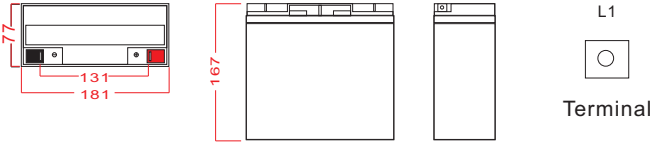
- > High corrosion resistant performance: Pb-Ca multi-alloy grid
- > High energy density and power density
- > Optimized capability of instant high-current discharging
- > Excellent charge acceptance ability
- > Strong high and low temperature performance
- > Precision sealing technology

Specification

Nominal Voltage	12V
Nominal Capacity	17Ah
Design life	5 years
Terminal	L1
Approx. Weight	Approx 5.00kg (11.0lbs)
Container Material	ABS
Rated Capacity	17.0Ah 20Hour Rate (0.85A to 10.5V)
	13.2Ah 3Hour Rate (4.40A to 10.5V)
	11.2Ah 1Hour Rate (11.2A to 9.60V)
Internal resistance	Full charged at 25°C: 18.0 mΩ
Max. Discharge Current	255A(5S)
Operating Temperature	Discharge: -40 ~60°C(-40~ 140°F)
	Charge: -20 ~50°C(-4~ 122°F)
	Storage: -20 ~50°C(-4~ 122°F)
Charge current:	Max. 4.25A ; Recom.1.70A
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: 181(L)×77(W)×167(H)×167(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	67.3	44.0	32.8	21.5	11.2	6.43	4.69	3.76	3.20	2.11	1.68	0.90
1.65V	66.8	42.2	30.1	20.4	10.5	6.17	4.56	3.64	3.13	2.07	1.67	0.88
1.70V	54.7	39.6	28.1	19.8	10.2	6.05	4.47	3.45	3.09	2.04	1.63	0.87
1.75V	50.8	37.7	26.2	19.3	9.84	5.90	4.40	3.40	2.96	1.99	1.60	0.85
1.80V	46.8	35.5	24.3	18.7	9.50	5.75	4.17	3.33	2.84	1.94	1.56	0.82

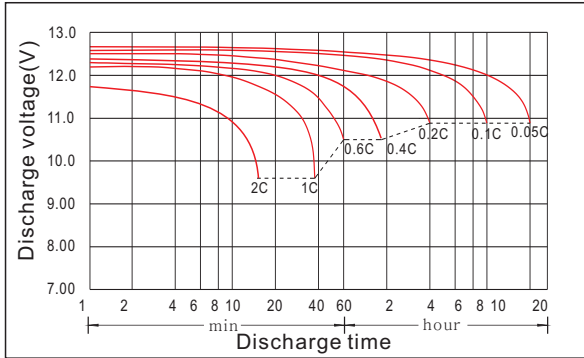
Constant Power Discharge Characteristics Unit: W/cell (25°C, 77°F)

FV/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	126	79.3	60.1	36.3	20.6	12.0	8.87	7.11	6.04	3.98	3.26	1.79
1.65V	116	75.1	56.4	36.1	19.4	11.6	8.61	6.89	5.92	3.92	3.20	1.74
1.70V	107	72.8	53.8	36.0	18.8	11.4	8.47	6.55	5.75	3.88	3.17	1.72
1.75V	96.6	70.6	51.9	35.6	18.2	11.1	8.36	6.46	5.64	3.72	3.10	1.69
1.80V	86.7	68.3	49.6	35.3	18.0	11.0	8.13	6.40	5.50	3.60	3.04	1.67

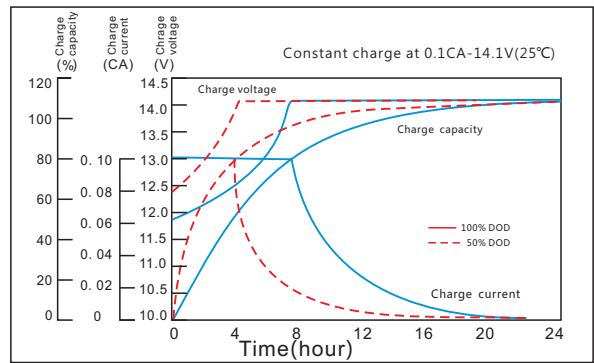
Disclaimer: Manufacturers have the right to self-modify the parameters of the product updates, please keep in touch with manufacturers to obtain the latest information.

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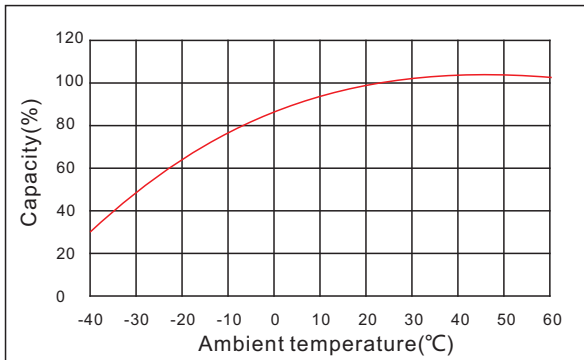
Discharge characteristic



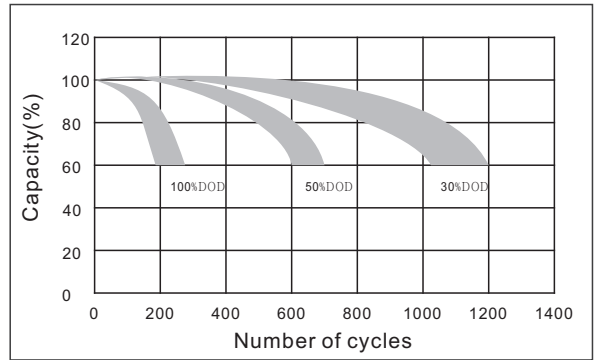
Charging characteristic



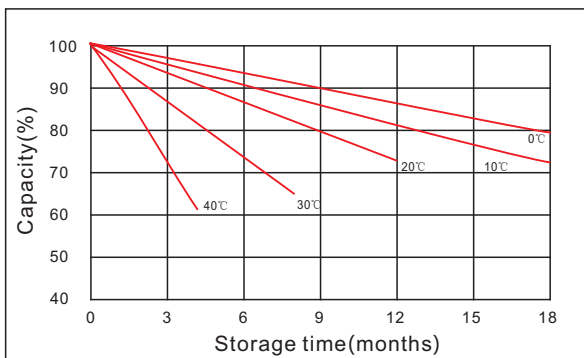
The effect of temperature on capacity



The effect of discharge depth on cycle life



Curves of self-discharge



Curves of open circuit voltage vs. capacity

