

NP12-70AH

Specification

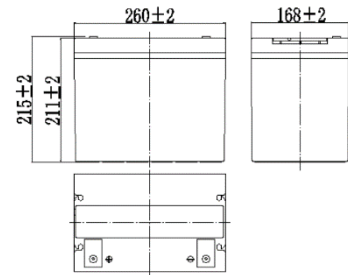
Nominal Voltage		12 V
Rated capacity (20 hour rate)		70Ah
Dimension	Length	260±2mm (10.24inch)
	Width	168±2mm (6.61inch)
	Height	211±2mm (8.31inch)
	Total Height	215±2mm (8.46inch)
Approx. Weight		24.5kg (49.6lbs)±3%



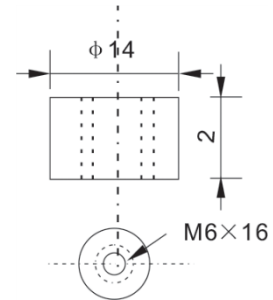
Characteristics

Capacity (25°C)	10HR(10.8V)	70Ah
	3HR(10.8V)	52.5Ah
	1HR(10.5V)	39Ah
Terminal type		T14
Internal resistance (Fully charged, 25°C)		Approx. 6mΩ
Capacity affected by temperature (10HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25°C±3°C(77°F±5°F)
Operating temperature range	Discharge	-15°C~50°C(5°F~122°F)
	Charge	-10°C~50°C(14°F~122°F)
	Storage	-20°C~50°C(-4°F~122°F)
Float charging voltage(25°C)		13.50 to 13.80V
		Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.50 to 15.00V
		Temperature compensation: -30mV/°C
Maximum charging current		21A
Terminal material		Copper
Maximum discharge current		700A (5 sec.)
Designed floating life(20°C)		10years

Dimension



Terminal



Construction

Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper

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

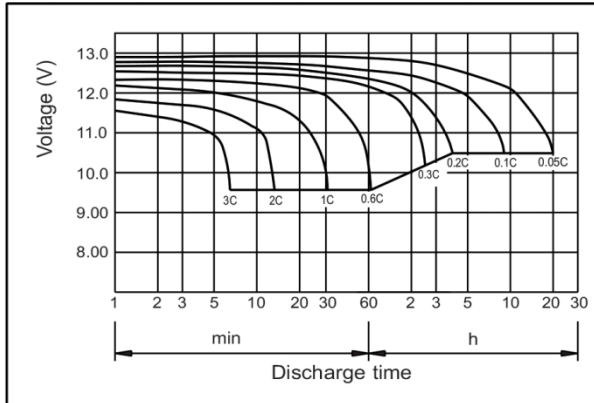
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	153	118	70.4	43.3	25.6	18.4	14.7	12.6	8.64	7.13	3.78
9.90V	148	115	68.9	42.6	25.4	18.3	14.6	12.5	8.59	7.11	3.77
10.2V	142	111	66.8	41.5	25.2	18.2	14.5	12.4	5.53	7.09	3.76
10.5V	136	107	65.2	40.2	24.8	18.1	14.4	12.3	8.47	7.05	3.74
10.8V	128	101	62.8	38.9	24.2	17.5	14.0	12.0	8.22	7.00	3.71

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

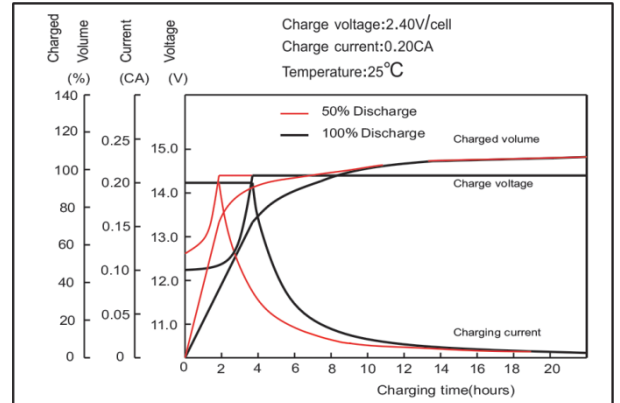
F.V/TIME	10min	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	1648	1291	789	493	296	217	173	149	103	85.1	45.3
9.90V	1599	1260	774	486	294	215	172	148	102	84.9	45.2
10.2V	1533	1214	750	473	292	214	171	147	101	84.7	45.1
10.5V	1467	1172	732	459	287	212	170	146	101	84.2	44.8
10.8V	1384	1110	705	444	280	206	164	141	97.6	83.6	44.5

Note: The above characteristics data can be obtained within three charge/discharge cycle.

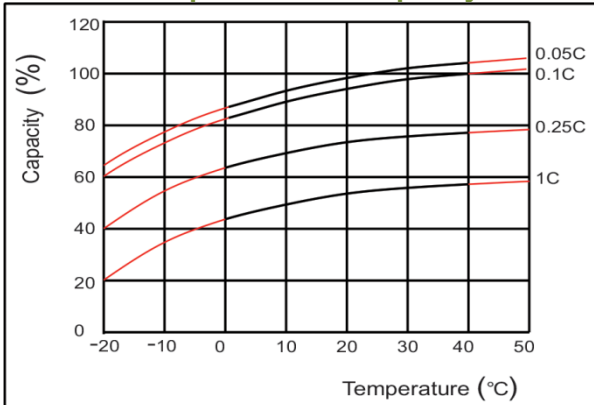
Discharge Characteristics (25°C)



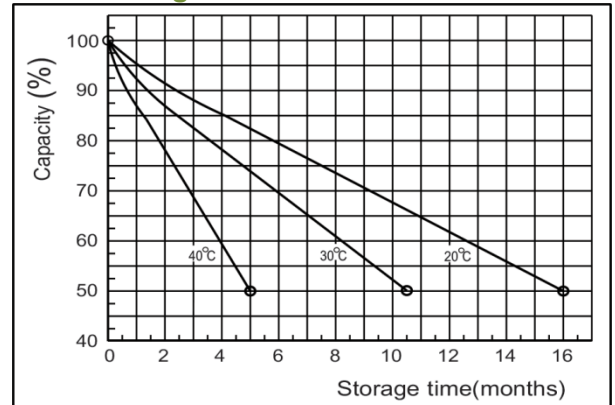
Charging Characteristics (25°C)



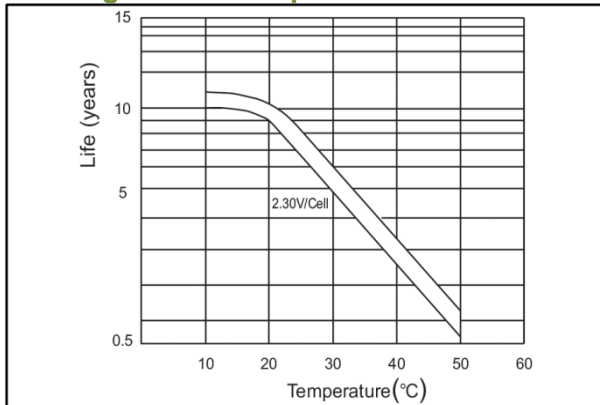
Effect of Temperature on Capacity



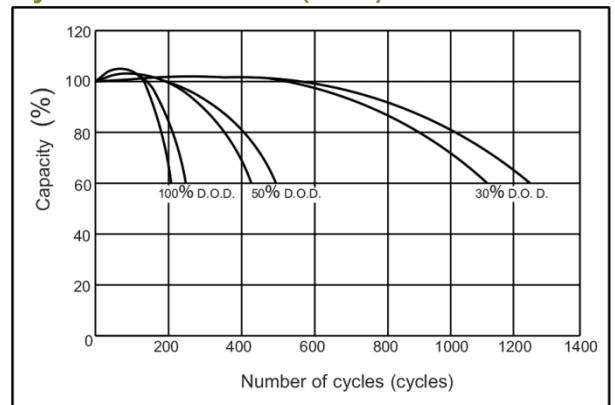
Self-discharge Characteristics



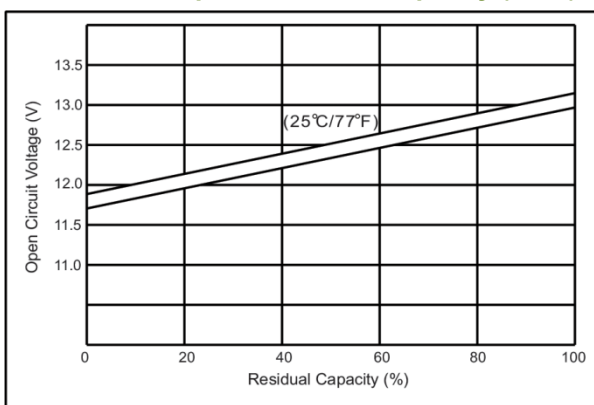
Floating Life on Temperature



Cycle Life on D.O.D. (25°C)



The relationship for OCV and Capacity (25°C)



Relationship for Charging Voltage & Temp.

