



Sealed lead-acid battery

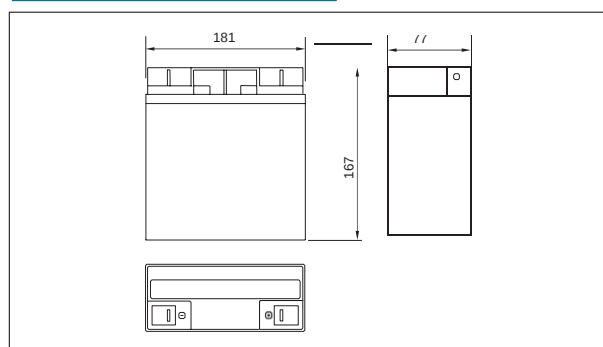
HA12-18 HEY

Specifications

Nominal Voltage		12V
Rated capacity (20 hour rate)		18Ah
Dimensions	Length	181±2mm(7.13inch)
	Width	77±1mm(3.03inch)
	Height	167±2mm(6.57inch)
	Total Height	167±2mm(6.57inch)
Approx. Weight		5.2kg(11.5lbs)±4%

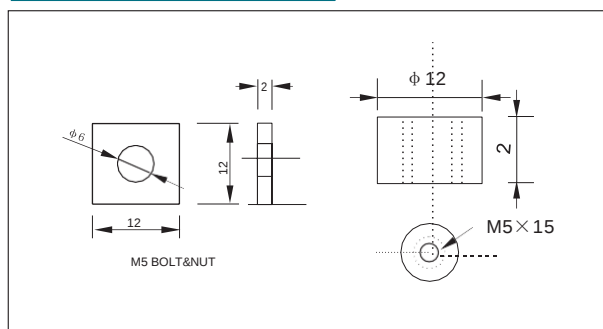
Characteristics

Outer dimensions (mm)



Capacity (25°C)	20HR(10.5V)	18Ah
	10HR(10.5V)	16.8Ah
	1HR(9.60V)	11Ah
Terminal type		T3/T12
Internal resistance (Fully charged, 25°C)		Approx. 15mΩ
Capacity affected by temperature (20HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3month	Remaining Capacity: 91%
	6month	Remaining Capacity: 82%
	12month	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		5.4A
Maximum discharge current		270A (5 sec.)
Designed floating life (20°C)		5 years

Terminal Type (mm)



Construction

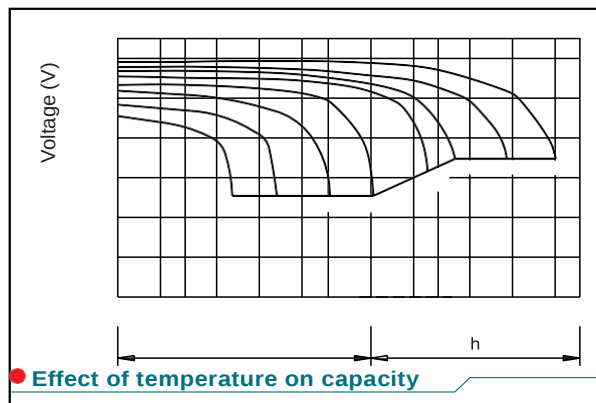
Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper

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

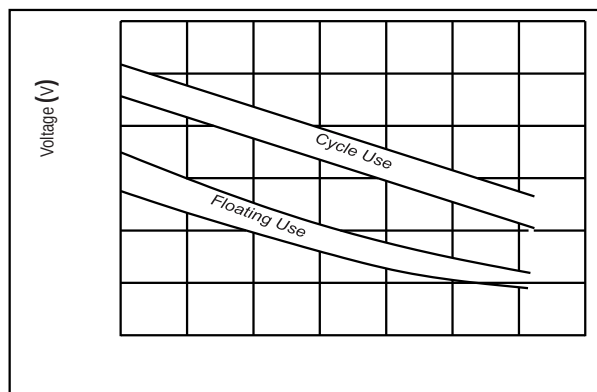
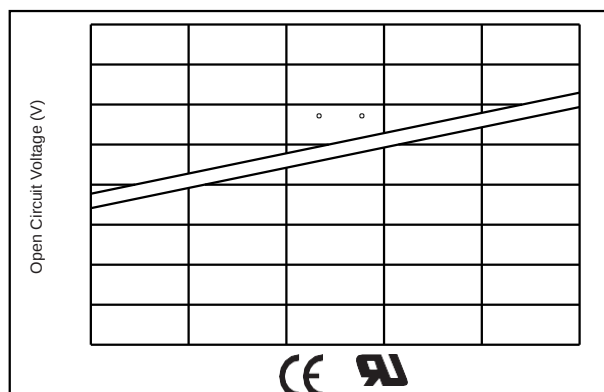
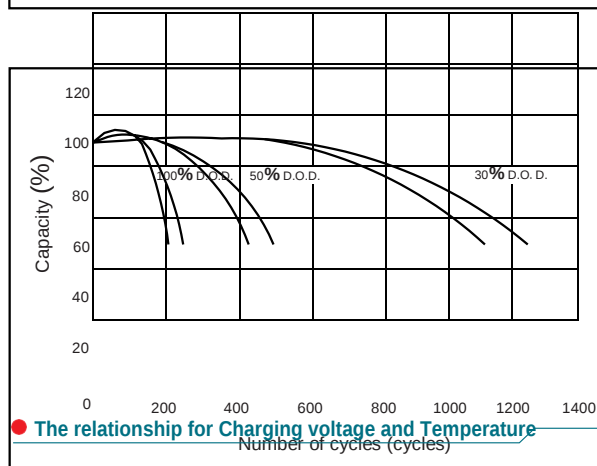
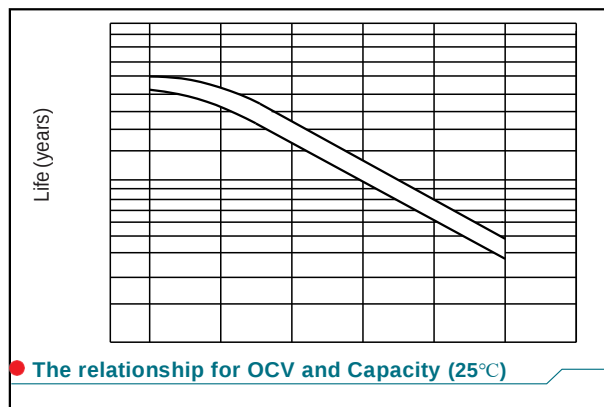
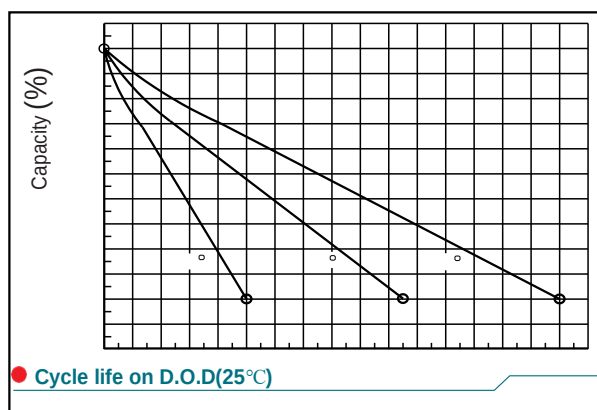
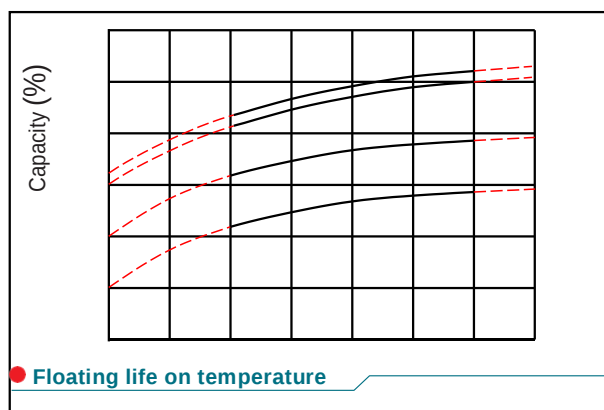
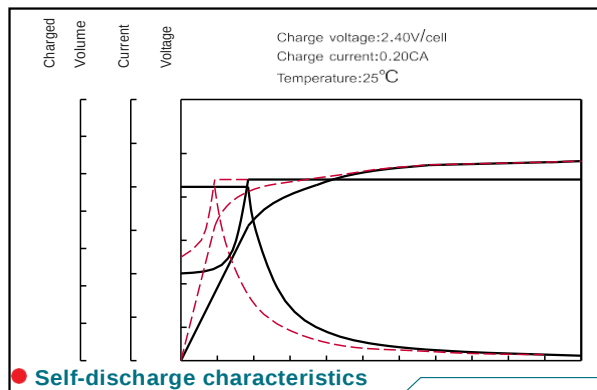
F.V/Time	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
9.60V	68.8	43.6	34.0	19.2	11.8	6.45	4.46	3.69	3.14	1.70	0.91
9.90V	66.7	42.3	33.2	18.8	11.6	6.41	4.44	3.67	3.12	1.70	0.91
10.2V	63.9	40.5	32.0	18.2	11.3	6.35	4.40	3.64	3.10	1.69	0.91
10.5V	61.2	38.8	30.9	17.8	11.1	6.26	4.37	3.62	3.08	1.68	0.90
10.8V	57.8	36.6	29.3	17.1	10.8	6.10	4.24	3.51	2.99	1.65	0.88

HA12-18Ah 12V18Ah

● Discharge characteristics(25°C)



● Charging characteristics (25°C)



gdp

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