

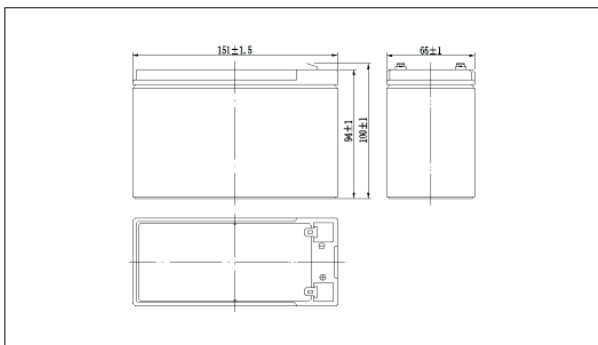
MV1270(12V7Ah)

Specifications

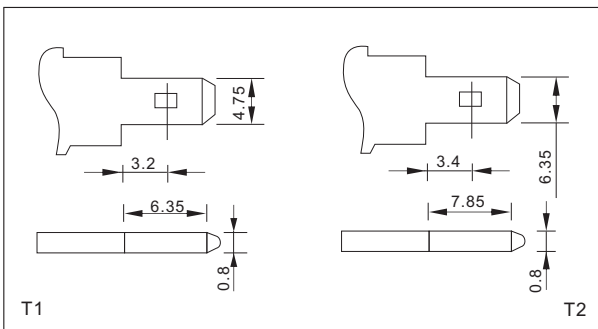
Nominal Voltage		12V
Rated capacity (20 hour rate)		7Ah
Dimensions	Length	151±1.5mm(5.94inch)
	Width	65±1mm(2.56inch)
	Height	94±1mm(3.70inch)
	Total Height	100±1mm(3.94inch)
Approx. Weight		1.95kg(4.3lbs)±4%



Outer dimensions (mm)



Terminal Type (mm)



Characteristics

Capacity (25°C)	20HR(10.5V)	7Ah
	10HR(10.5V)	6.5Ah
	1HR(9.60V)	4.2Ah
Terminal type		T1/T2
Internal resistance (Fully charged, 25°C)		Approx. 25mΩ
Capacity affected by temperature (20HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 months	Remaining Capacity: 91%
	6 months	Remaining Capacity: 82%
	12 months	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		2.1A
Maximum discharge current		105A(5 sec.)
Designed floating life(20°C)		5 years

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)

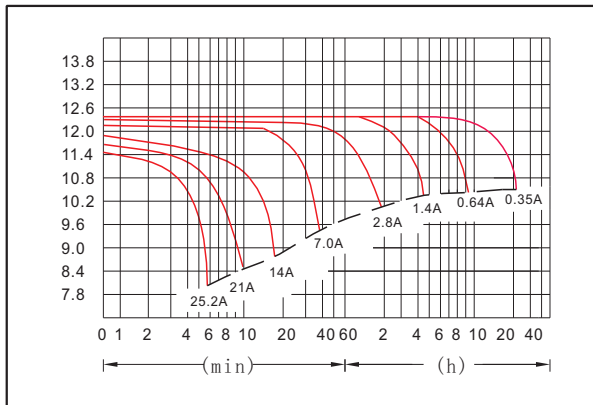
F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	25.2	16.5	12.3	8.05	4.20	2.45	1.80	1.45	1.23	0.81	0.66	0.36
10.2V	23.1	15.8	11.3	7.64	3.94	2.35	1.75	1.40	1.20	0.80	0.65	0.5
10.5V	21.0	14.8	10.5	7.41	3.82	2.30	1.72	1.33	1.19	0.79	0.64	0.35
10.8V	20.2	14.1	9.80	7.20	3.69	2.25	1.69	1.31	1.14	0.77	0.63	0.34
11.1V	18.7	13.3	9.10	7.00	3.56	2.19	1.60	1.28	1.09	0.75	0.61	0.33

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

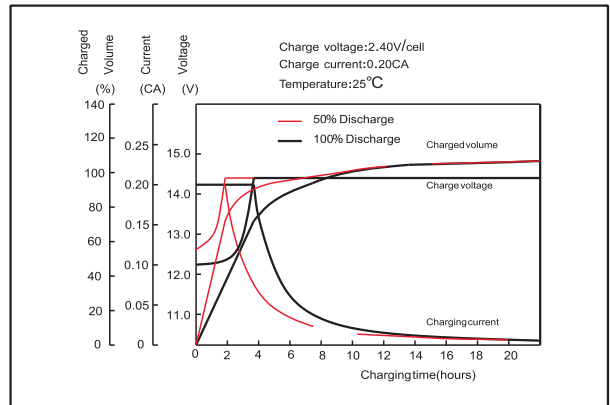
F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	262	177	131	86.6	45.4	26.9	20.1	16.3	14.0	9.29	7.65	4.21
10.2V	248	177	126	85.8	44.6	27.1	20.3	16.3	14.0	9.32	7.64	4.14
10.5V	231	168	120	85.3	44.2	26.7	20.1	15.6	14.0	9.26	7.62	4.14
10.8V	227	163	113	83.5	42.9	26.3	19.9	15.4	13.4	9.09	7.45	4.06
11.1V	212	154	106	81.9	41.8	25.9	19.1	15.3	13.0	8.94	7.39	4.03

Note: The above characteristics data can be obtained within three charge or discharge cycles.

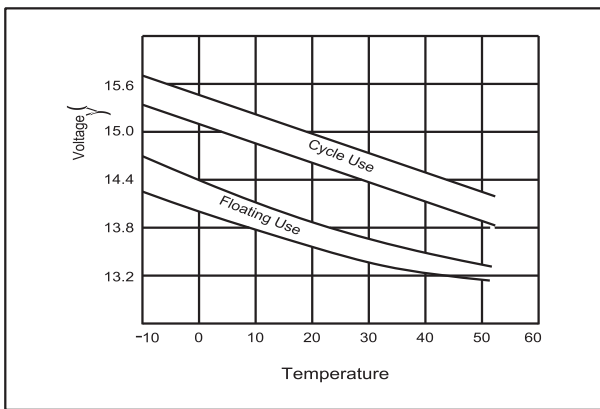
● **Discharge Curves 25°C (77°F)**



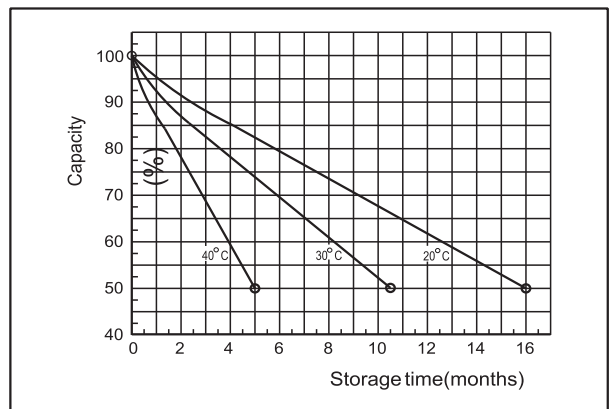
● **Charging characteristics (25°C)**



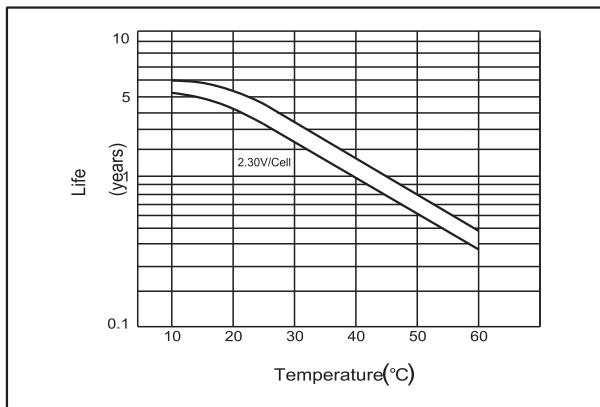
● **The relationship for Charging voltage and Temperature**



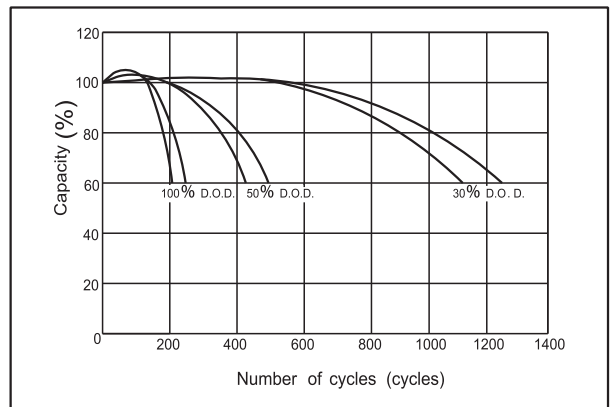
● **Self-discharge characteristics**



● **Floating life on temperature**



● **Cycle life on D.O.D (25°C)**



● **The relationship for OCV and Capacity (25°C)**

