

6-FM-250

Product Image



Product Dimensions



Performance Characteristics

Rated Voltage		12V	Environment Temperature Requirements	Discharge Temperature		-15-50℃
Number of cells		6 Cells		Charge Temperature		0-40℃
Designed Life		5-8 Years		Storage Temperature		-15-40℃
Rated Capacity at 25℃(77°F)	10hr rate(0.1C,10.8V)	250Ah	Inner Resistance&Max. Discharge Current	A fully charged battery at 25℃(77°F)		2mΩ
	3hr rate(0.25C,10.8V)	191.7Ah		Max. Discharge Current		3750A(5s)
	1hr rate(0.55C,10.5V)	138.1Ah		Short Circuit Current		12500A
Capacity affected by Temperature(10 hour rate)	40℃(104°F)	103%	Dimension and weight	Length		520mm
	25℃(77°F)	100%		Width		269mm
	0℃(32°F)	85%		Height		220mm
	-15℃(5°F)	65%		Total Height		225mm
Charge Method:constant-voltage charging at 25℃(77°F)	Cyclic use	14.4-14.9V		General Feature	Reference Weight	
	Maximum charging current	62.5A	Maintenance free			
	Temperature Compensation	-30mV/℃	Convenient for installation			
	Float Use	13.6-13.8V	Safety and no leakage			
	Temperature Compensation	-20mV/℃	Excellent recharge and discharge performance			
Self-Discharge 25℃(77°F) Capacity	after 3 month storage	91%	Adapt to high or low temperature			
	after 6 month storage	82%	Good deep discharge performance			
	after 12 month storage	64%	Longer cycle life			

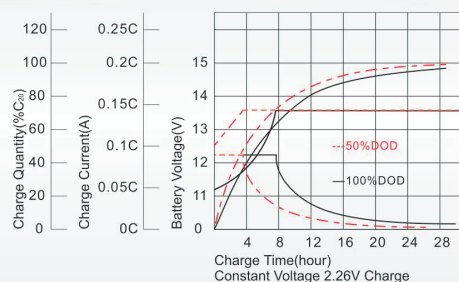
Constant-current discharge parameter Unit: A(25℃)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	574.4	429.7	345.6	282.8	224.4	167.5	131.9	63.9	41.9	25.0	13.0
1.75V/cell	647.5	472.2	377.5	304.2	233.1	173.6	138.1	65.0	43.1	25.3	13.1
1.70V/cell	713.1	514.7	403.1	319.7	242.5	180.6	142.5	66.9	44.2	25.5	13.4
1.65V/cell	786.4	555.6	428.6	339.7	255.8	185.3	147.2	69.7	45.3	26.0	13.6
1.60V/cell	867.2	603.1	458.3	361.9	270.0	193.1	152.5	71.9	46.9	26.3	13.6

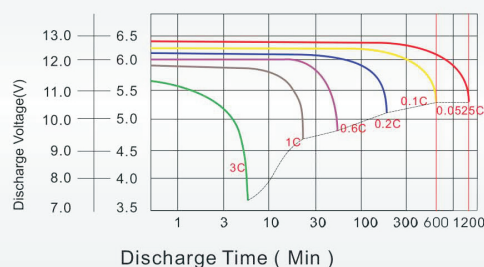
Constant-current discharge parameter Unit: W(25℃)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	3h	5h	10h	20h
1.80V/cell	1038.9	784.7	636.4	525.3	421.1	319.2	253.3	123.9	81.9	49.4	25.7
1.75V/cell	1146.4	848.3	686.4	559.7	433.6	328.1	263.9	125.6	83.9	49.7	25.9
1.70V/cell	1227.5	903.6	722.8	583.9	448.9	340.0	271.1	128.9	85.8	50.3	26.4
1.65V/cell	1334.4	966.4	762.5	615.6	469.7	345.3	278.3	133.6	87.8	51.1	26.7
1.60V/cell	1437.8	1025.3	801.9	648.6	492.2	358.1	286.7	137.2	90.3	51.7	26.8

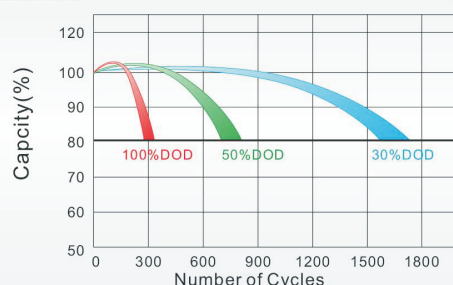
Charge Characteristics for Float Use @ 25°C/77°F



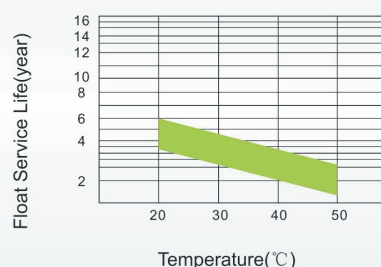
Discharge Characteristics at Various Rates @ 25°C/77°F



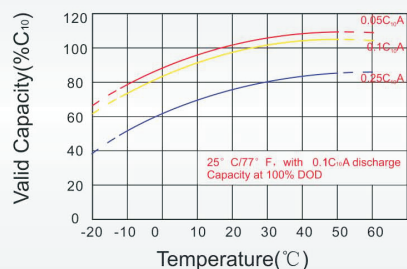
Cycle Life in Relation to Depth of Discharge



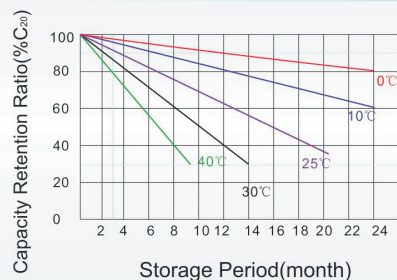
Float Service Life



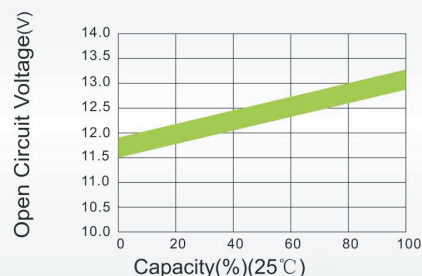
Temperature and Valid Capacity



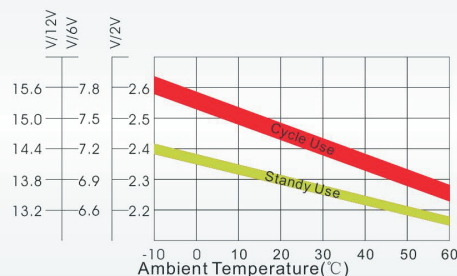
Self Discharge Characteristics



Capacity and Open Circuit Voltage



Relationship between Charging Voltage and Temperature



Battery Construction

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



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