



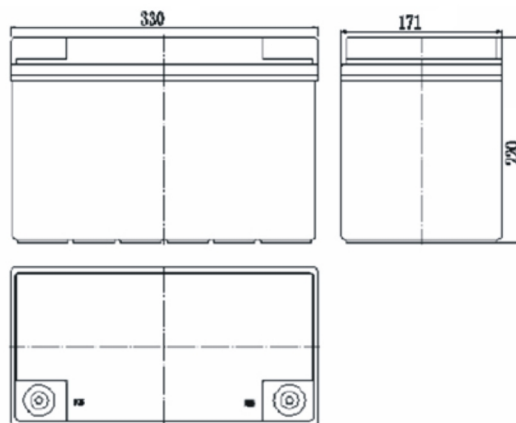
Champion Battery Storage Limited

6FM100G

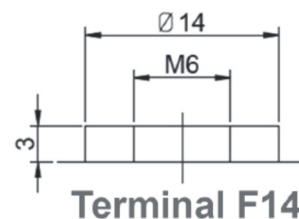
Normal Voltage		12V
Capacity (25°C)	10HR(10.8V)	100 Ah
	5HR(10.5V)	88 Ah
	1HR(9.6V)	61 Ah
Dimension	Length	330 mm
	Width	171 mm
	Height	214 mm
	Total Height	220 mm
Approx. Weight		29.5 Kg
Terminal type		F14 with M6, threaded inserted
Internal resistance (Fully charged, 25°C)		Approx. 4m Ω
Capacity effected by temperature 10HR	40°C	103%
	25°C	100%
	0°C	88%
	-15°C	70%
Self-discharge (25°C)	3 month	Remaining Capacity: 94%
	6 month	Remaining Capacity: 88%
	12 month	Remaining Capacity: 75%
Nominal operating temperature		25°C±3°C(77°F±5°F)
Operating temperature range	Discharge	-15°C~55°C(5°F~131°F)
	Charge	-10°C~55°C(14°F~131°F)
	Storage	-20°C~55°C(-4°F~131°F)
Float charging voltage(25°C)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		13.50 to 13.80V Temperature compensation: -30mV/°C
Maximum charging current		25A
Terminal material		Copper
Maximum discharge current		800A(5 sec.)
Designed floating life (20°C)		15 years



Dimensions



Terminal



Applications

- » Telecommunication system
- » Railway station
- » Ship Equipment
- » Military Equipment
- » Medical treatment equipment
- » Alarm system
- » Control systems
- » Emergency lamp
- » Firefighting equipment
- » Standby power supply
- » UPS and solar power

General Features

- » Wide operating temperature range from -25°C to 45°C
- » No memory effect, thick flat plate with high Tin low Calcium alloy
- » Long Service Life, Both for Float and Cyclic use
- » Sealed and maintenance free operation
- » ABS containers and covers
- » Safety valve installation for explosion proof



Champion Battery Storage Limited

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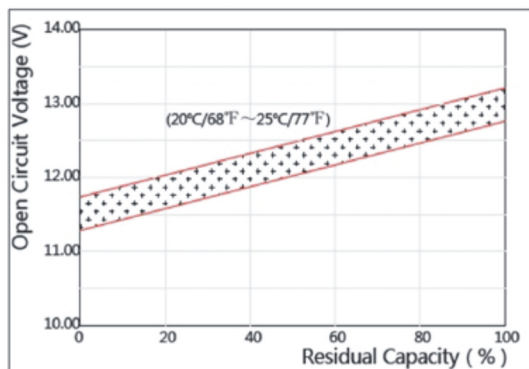
Constant Current Discharge Characteristics (A, 25°C)

F.V/Time	5 min	10 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60V	301	2216	183.7	113.7	68	40.0	29	22.9	19.0	13.1	10.8	5.79
1.67V	269	2049	172.6	108.8	66.3	39.0	28.8	22.5	18.9	12.9	10.6	5.63
1.70V	239.8	186	164.0	104.6	65.1	38.8	28.3	22.3	18.7	12.7	10.5	5.56
1.75V	208.7	173	151.7	101	64.0	37.9	27.7	22	18.5	12.5	10.3	5.45
1.80V	184.9	158	141.6	96	61.6	37.0	27.1	21.5	17.9	12.3	10.0	5.34
1.85V	158	141.7	129.5	91	59.1	36.1	26.2	20.9	17.5	11.9	9.79	5.19

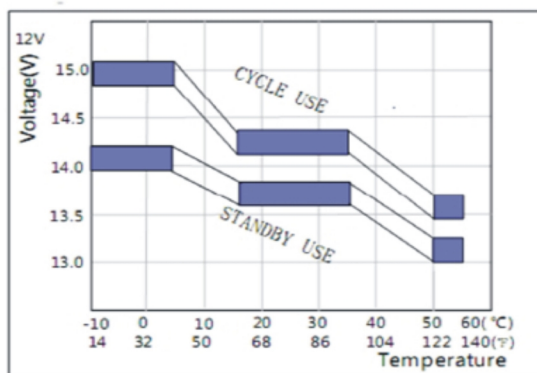
Constant Power Discharge Characteristics (Watt, 25°C)

F.V/Time	5 min	10 min	15 min	30 min	1 h	2 h	3 h	4 h	5 h	8 h	10 h	20 h
1.60V	530	400	334.2	209.1	127.3	74.1	53.9	43.4	36.5	25.0	20.7	11.6
1.67V	479	372	317.5	201.2	124.5	73.4	53.7	42.9	35.9	24.8	20.5	11.4
1.70V	434	342	303.3	195.4	122.3	73.1	53.2	42.7	35.6	24.6	20.3	11.1
1.75V	382	322	284.1	190.3	121.5	72.3	52.9	42.5	35.5	24.4	20.2	10.8
1.80V	341	295	268.3	183.6	118	71.5	52.6	41.9	34.9	24.1	20.0	10.6
1.85V	297	269	246.7	175.3	114.1	69.2	51.3	41.2	34.5	23.8	19.7	10.4

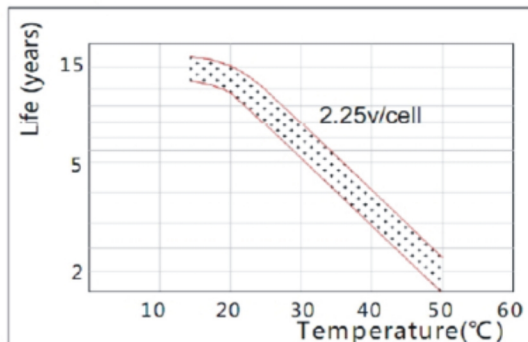
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



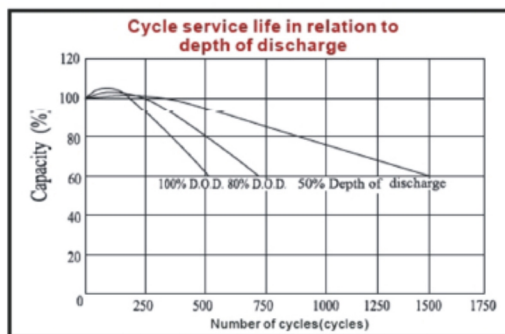
The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)



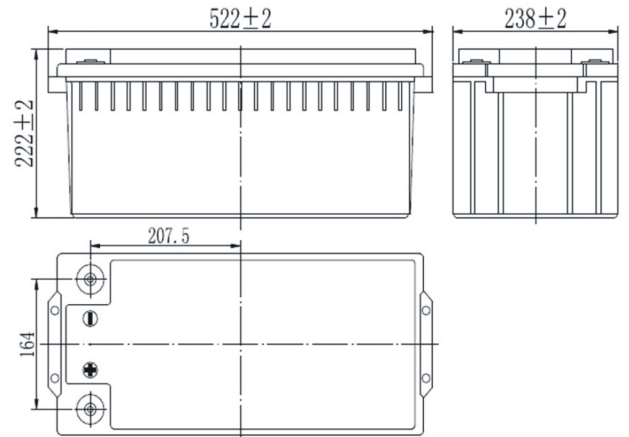


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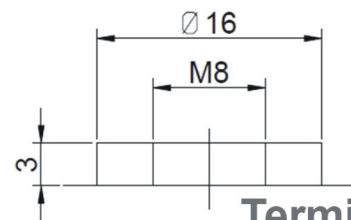
200Ah

6FM200G

Normal Voltage		12V
Capacity (25°C)	10HR(10.8V)	200 Ah
	5HR(10.5V)	176 Ah
	1HR(9.6V)	124 Ah
Dimension	Length	522±2mm (20.55inch)
	Width	238±2mm (9.37inch)
	Height	222±2mm (8.74inch)
	Total Height	222±2mm (8.74inch)
Approx. Weight		58.5 Kg ± 2%
Terminal type		T11
Internal resistance (Fully charged, 25°C)		Approx. 3.3mΩ
Capacity effected by temperature 10HR	40°C	103%
	25°C	100%
	0°C	88%
	-15°C	70%
Self-discharge (25°C)	3 month	Remaining Capacity: 94%
	6 month	Remaining Capacity: 88%
	12 month	Remaining Capacity: 75%
Nominal operating temperature		25°C±3°C(77°F±5°F)
Operating temperature range	Discharge	-15°C~50°C(5°F~131°F)
	Charge	-10°C~50°C(14°F~131°F)
	Storage	-20°C~50°C(-4°F~131°F)
Float charging voltage(25°C)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.10 to 14.40V Temperature compensation: -30mV/°C
Maximum charging current		40A
Terminal material		Copper
Maximum discharge current		1600A(5 sec.)
Designed floating life (20°C)		15 years



Terminal



Terminal F14

Applications

- » Telecommunication system
- » Railway station
- » Ship Equipment
- » Military Equipment
- » Medical treatment equipment
- » Alarm system
- » Control systems
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Champion Battery Storage Limited

200Ah

6FM200G

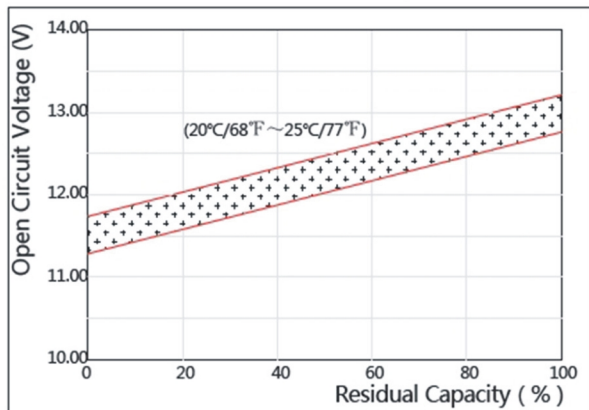
Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	572.9	427.1	356.8	222.1	134.7	78.9	57.0	45.4	37.8	25.8	21.3	11.5
1.67V	511.5	394.0	335.7	212.1	130.7	77.6	56.3	44.8	37.3	25.5	21.0	11.3
1.70V	456.3	357.8	317.6	204.0	127.6	76.5	55.6	44.3	37.0	25.2	20.8	11.0
1.75V	397.0	332.7	294.5	197.0	125.6	75.2	54.8	43.8	36.6	24.8	20.5	10.8
1.80V	350.7	302.5	274.4	187.9	121.6	73.6	53.7	42.8	35.7	24.2	20.1	10.6
1.85V	300.5	272.4	250.2	177.9	115.6	70.8	52.0	41.6	34.8	23.7	19.6	10.4

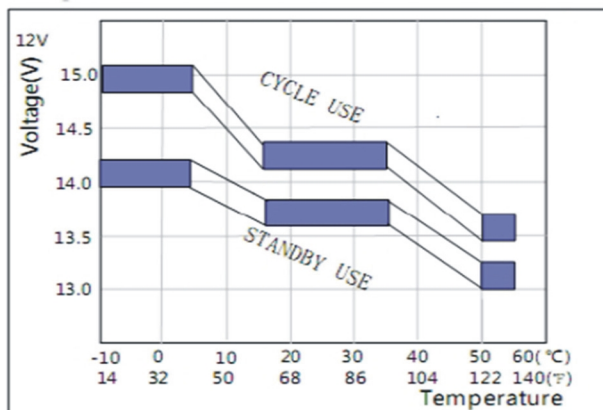
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F.V/Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
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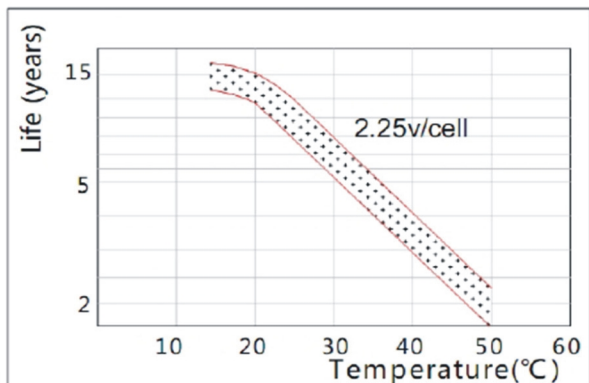
The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



The Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Cycle Life on D.O.D(25°C)

