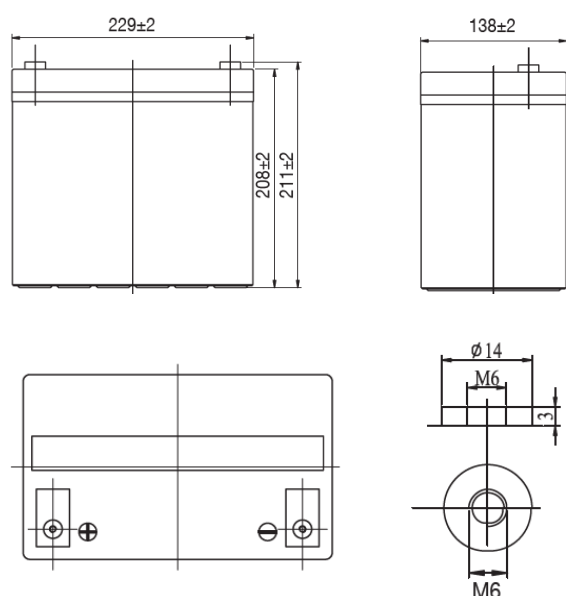


APPLICATIONS

- Uninterruptible Power Supplies (UPS)
- Electric Power Systems (EPS)
- Emergency backup power supplies
- Electronic apparatus and equipment
- Communication power supplies
- DC power supplies
- Auto control system


SPECIFICATIONS

Nominal Voltage		12 V
Number of cells		6
Design Floating Life (20°C)		12 years
Dimensions	Length	229 mm
	Width	138 mm
	Height	208 mm
	Total Height	211 mm
Weight		17.0 kg
Nominal Capacity (25°C)	20 hours rate (1.80)	57.80 Ah
	10 hours rate (1.80)	55.00 Ah
	5 hours rate (1.75)	48.15 Ah
	1 hour rate (1.70)	32.70 Ah
Internal Resistance (fully charged, 25°C)		6.5 mOhm
Self Discharge		approx. 3% per month at 25°C
Nominal Operating Temperature		25°C
Operating Temperature range	Discharge	-15°C to 50°C
	Charge	-10°C to 50°C
	Storage	-20°C to 50°C
Float Charging Voltage		2.25 to 2.30 V/cell at 25°C
Temperature compensation		-18mV/°C
Boost Charging Voltage		2.40 to 2.45 V/cell at 25°C
Temperature compensation		-30mV/°C
Maximum charging current		16.5 A
Maximum discharge current (25°C)		550 A (5 sec.)
Short Circuit Current (25°C)		1850 A

Battery Construction

Component	Positive Plate	Negative Plate	Container & Cover	Safety Valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

PERFORMANCE DATA
Discharge Constant Current at 25°C (Amperes)

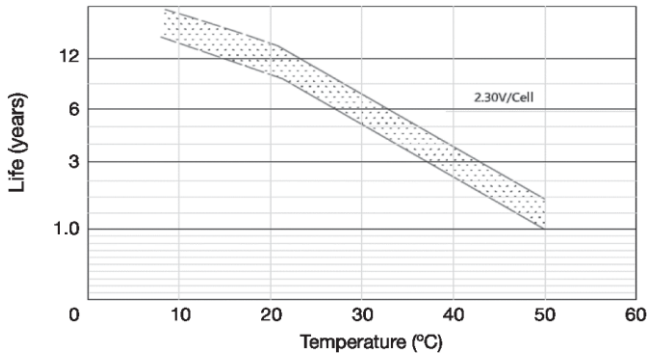
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	112	88.9	53.9	34.1	20.1	14.0	11.5	9.82	6.73	5.60	2.94
1.65V	109	86.8	52.8	33.6	20.0	13.9	11.4	9.76	6.69	5.59	2.93
1.70V	104	83.6	51.2	32.7	19.8	13.8	11.4	9.69	6.65	5.57	2.93
1.75V	99.7	80.8	50.0	32.1	19.5	13.8	11.3	9.63	6.60	5.54	2.91
1.80V	94.1	76.5	48.1	31.1	19.0	13.3	10.9	9.34	6.40	5.50	2.89

Discharge Constant Power at 25°C (Watts)

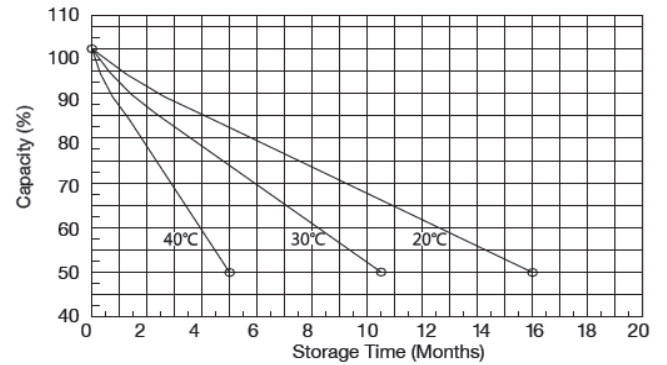
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	1210	977	605	389	233	165	135	116	80.0	66.9	35.3
1.65V	1174	953	593	383	231	164	134	115	79.5	66.7	35.2
1.70V	1125	918	575	373	229	163	134	115	79.0	66.5	35.1
1.75V	1077	887	561	366	226	162	133	114	78.4	66.1	34.9
1.80V	1016	840	540	355	220	157	129	110	76.1	65.7	34.7

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

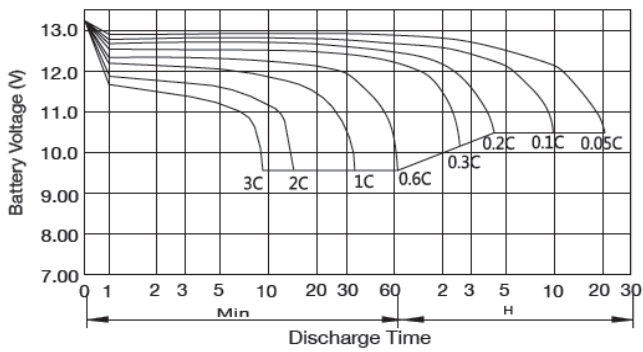
Temperature Effects on Float Life



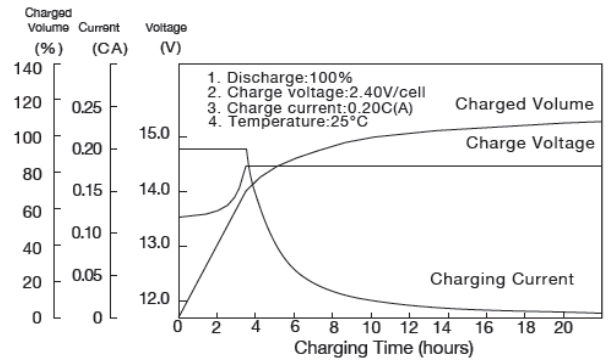
Self Discharge Characteristics



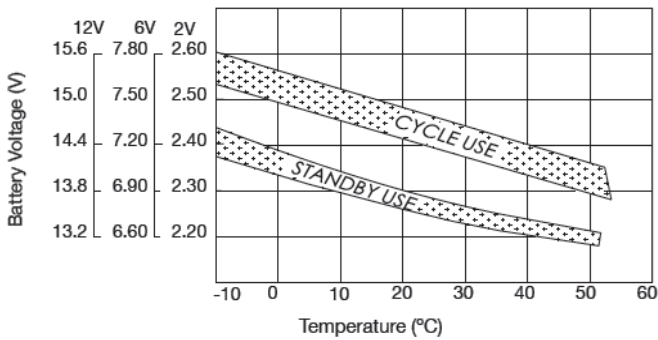
Discharge Characteristics (25°C)



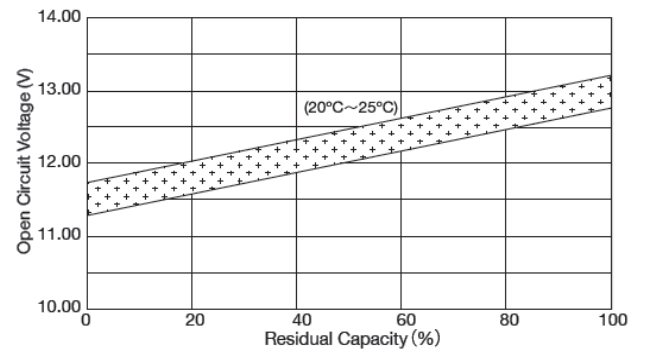
Charging Characteristics (25°C)



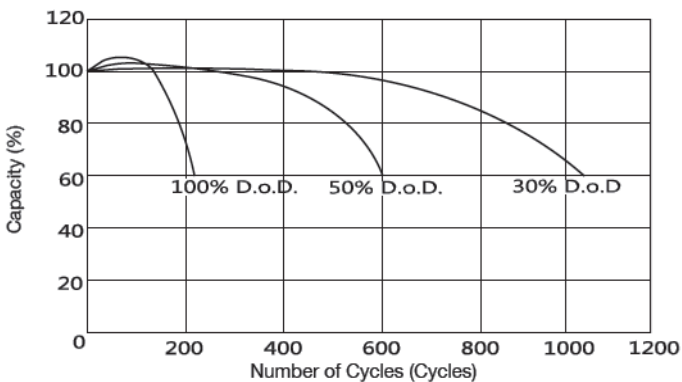
Relationship Between Charging Voltage and Temperature



Relationship Between OCV and Residual Capacity (25°C)



Cycle Service Life in Relation to Depth of Discharge



Temperature Effects on Capacity

