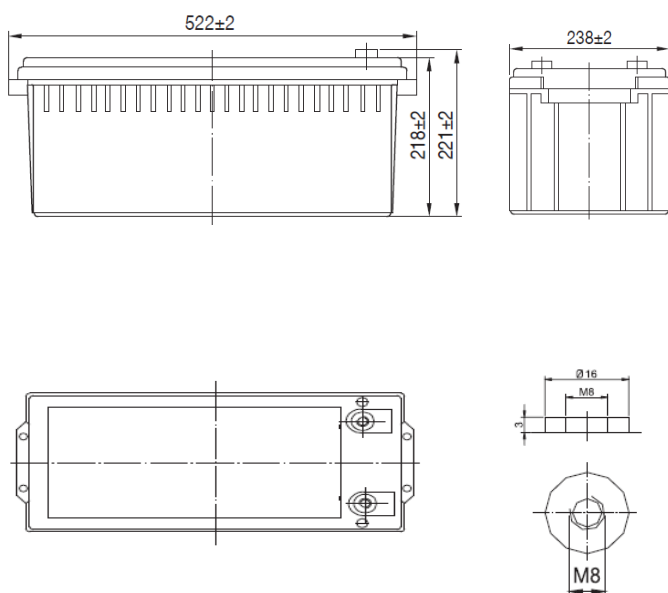


APPLICATIONS

- 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)	10 years	
Dimensions	Length	522 mm
	Width	238 mm
	Height	218 mm
	Total Height	221 mm
Weight	57.0 kg	
Nominal Capacity (25°C)	20 hours rate (1.80)	210.0 Ah
	10 hours rate (1.80)	200.0 Ah
	5 hours rate (1.75)	175.0 Ah
	1 hour rate (1.60)	124.0 Ah
Internal Resistance (fully charged, 25°C)	3.00 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	60.0 A	
Maximum discharge current (25°C)	1800 A (5 sec.)	
Short Circuit Current (25°C)	5250 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)

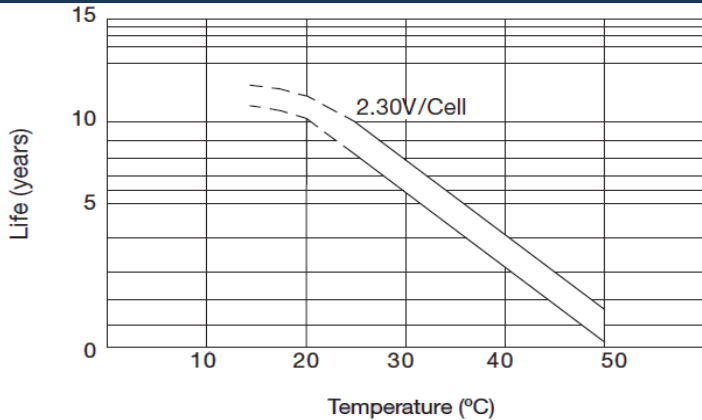
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	394	330	200	124	73.1	51.0	41.8	35.7	31.2	24.5	20.4	10.7
1.65V	382	322	196	122	72.6	50.7	41.6	35.5	31.0	24.3	20.3	10.7
1.70V	366	310	190	119	72.0	50.4	41.3	35.2	30.8	24.2	20.3	10.6
1.75V	350	300	185	117	70.9	50.0	41.0	35.0	30.6	24.0	20.1	10.6
1.80V	331	284	179	113	69.1	48.5	39.8	34.0	29.7	23.3	20.0	10.5

Discharge Constant Power at 25°C (Watts)

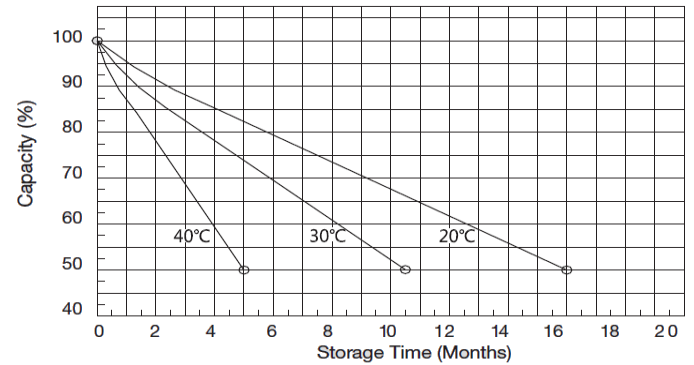
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	4253	3623	2244	1414	846	600	492	422	369	291	243	128
1.65V	4125	3536	2199	1392	841	596	489	419	367	289	243	128
1.70V	3955	3406	2132	1357	834	592	486	417	364	287	242	128
1.75V	3785	3290	2080	1330	821	588	482	414	362	285	240	127
1.80V	3573	3116	2004	1289	800	570	468	401	351	277	239	126

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

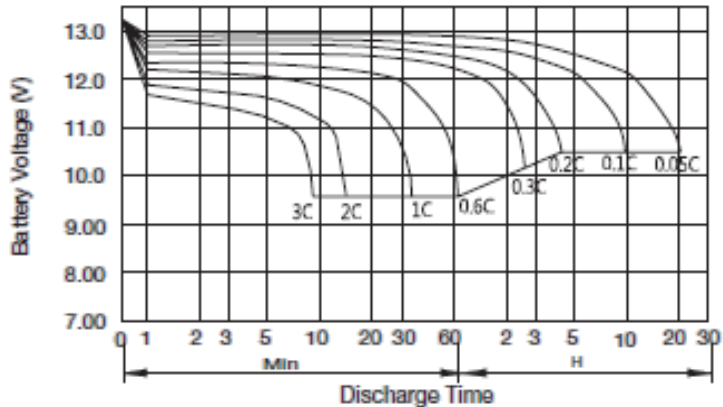
Temperature Effects on Float Life



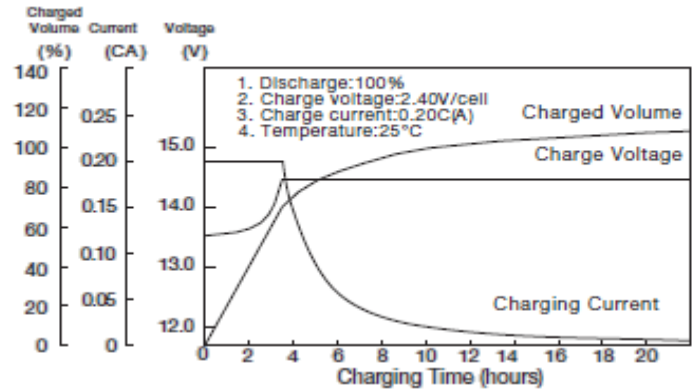
Self Discharge Characteristics



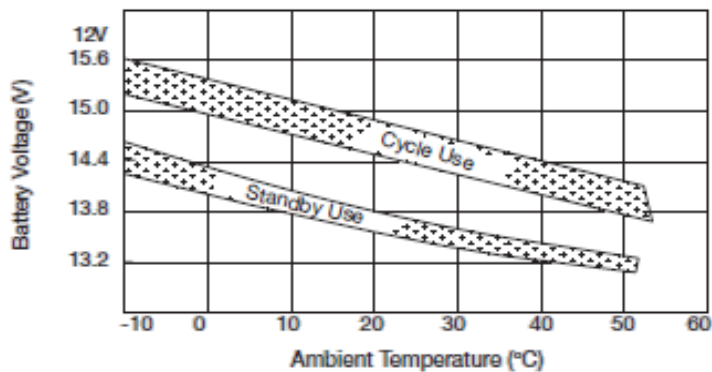
Discharge Characteristics (25°C)



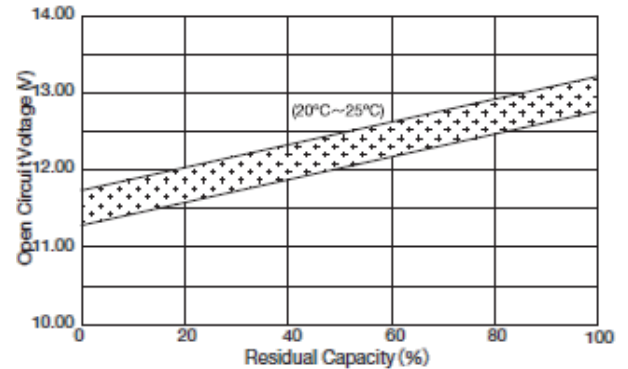
Charging Characteristics (25°C)



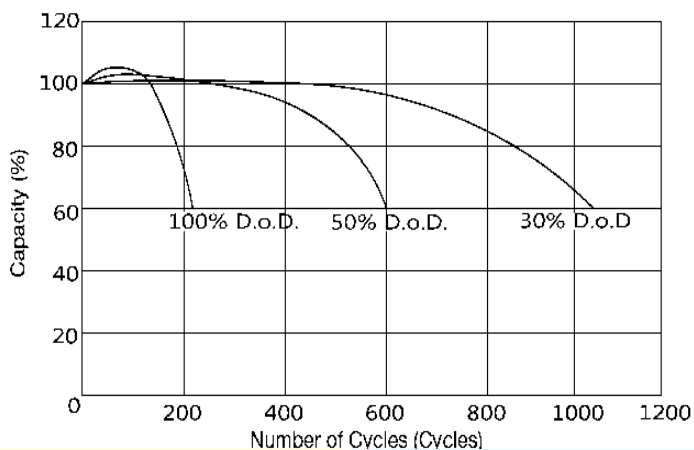
Relationship Between Charging Voltage and Temperature



Relationship Between OCV and Residual Capacity (25°C)



Cycle Service Life in Relation to Depth of Discharge



Temperature effects on capacity

