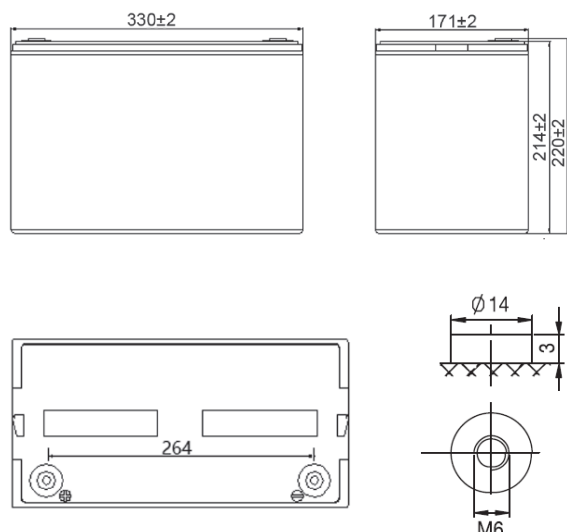


APPLICATIONS

- 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	330 mm
	Width	171 mm
	Height	214 mm
	Total Height	220 mm
Weight		31.5 kg
Nominal Capacity (25°C)	20 hours rate (1.80)	105.0 Ah
	10 hours rate (1.80)	100.0 Ah
	5 hours rate (1.75)	87.5 Ah
	1 hour rate (1.70)	59.5 Ah
Internal Resistance (fully charged, 25°C)		4.5 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		30.0 A
Maximum discharge current (25°C)		800 A (5 sec.)
Short Circuit Current (25°C)		2700 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)

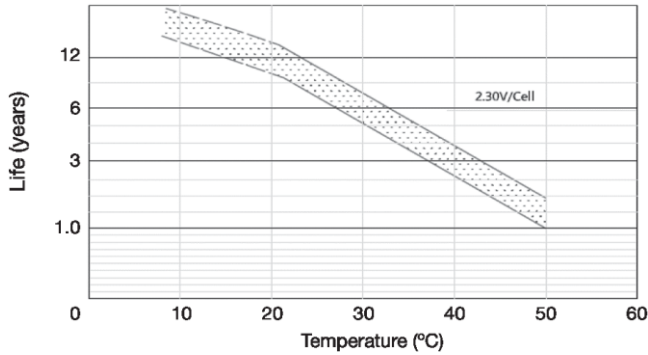
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	204	162	98.0	62.0	36.5	25.5	20.9	17.9	12.2	10.2	5.34
1.65V	198	158	96.0	61.1	36.3	25.4	20.8	17.7	12.2	10.2	5.33
1.70V	189	152	93.1	59.5	36.0	25.2	20.6	17.6	12.1	10.1	5.32
1.75V	181	147	90.8	58.3	35.5	25.0	20.5	17.5	12.0	10.1	5.29
1.80V	171	139	87.5	56.5	34.6	24.3	19.9	17.0	11.6	10.0	5.25

Discharge Constant Power at 25°C (Watts)

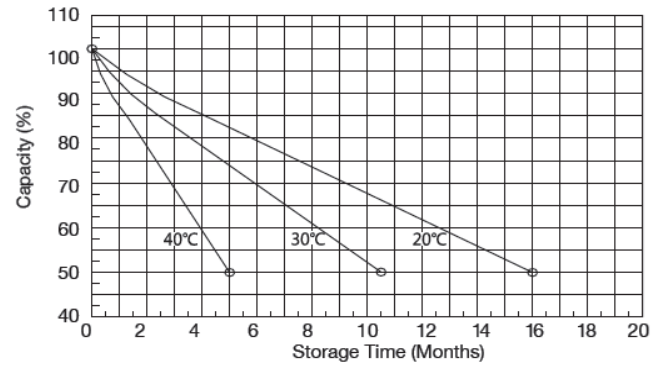
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	2200	1775	1100	707	423	300	246	211	145	122	64.1
1.65V	2134	1733	1078	696	421	298	244	210	145	121	64.0
1.70V	2046	1669	1045	679	417	296	243	208	144	121	63.8
1.75V	1958	1612	1019	665	411	294	241	207	143	120	63.4
1.80V	1848	1527	982	645	400	285	234	201	138	119	63.0

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

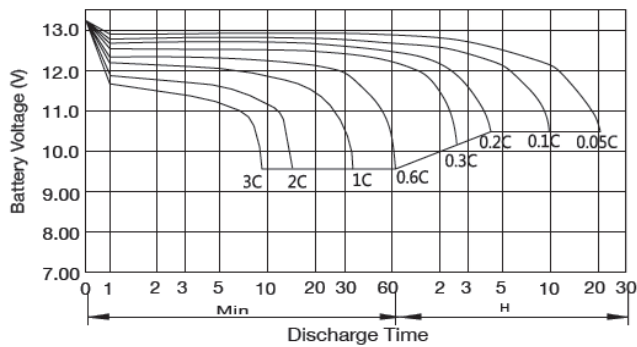
Temperature Effects on Float Life



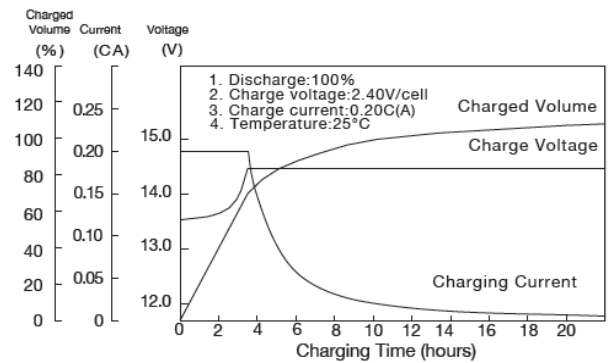
Self Discharge Characteristics



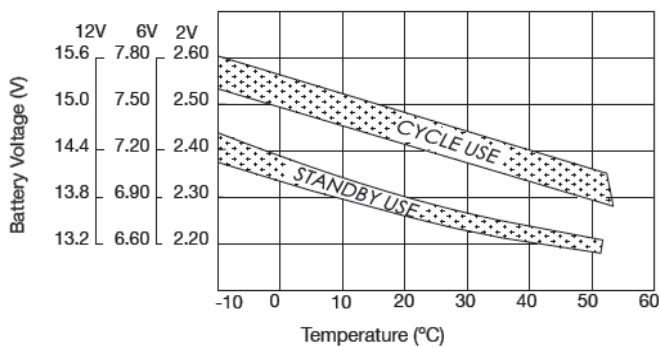
Discharge Characteristics (25°C)



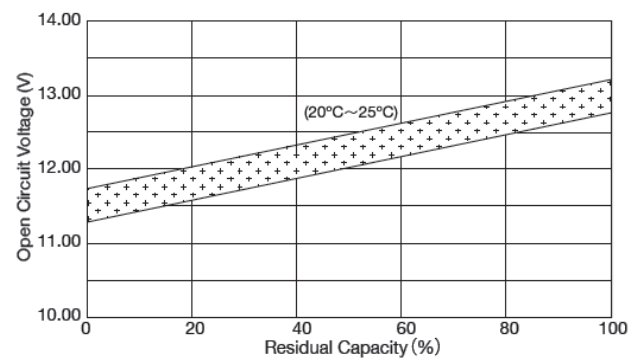
Charging Characteristics (25°C)



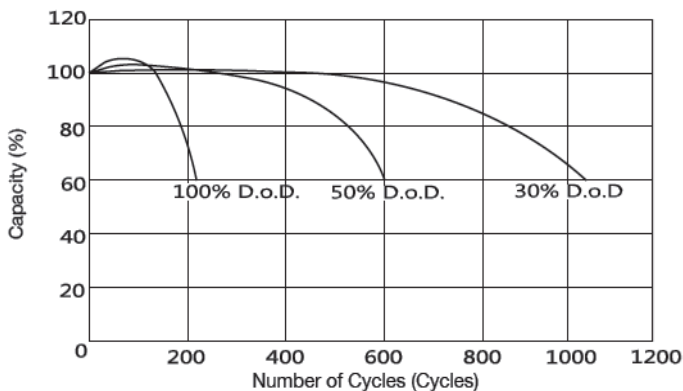
Relationship Between Charging Voltage and Temperature



Relationship Between OCV and Residual Capacity (25°C)



Cycle Service Life in Relation to Depth of Discharge



Temperature Effects on Capacity

