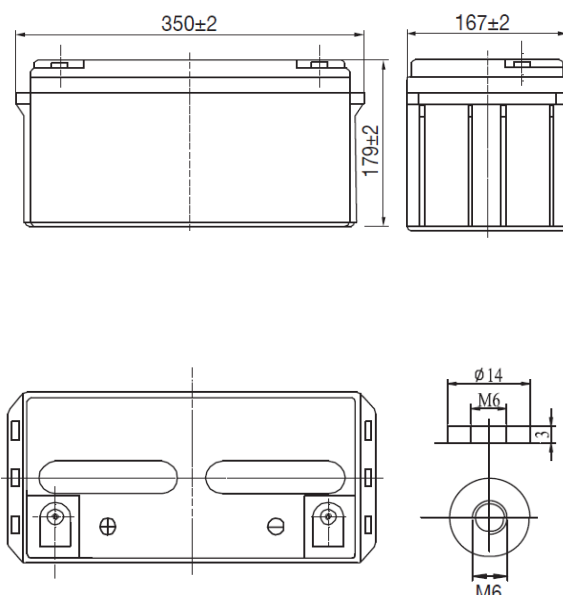


APPLICATIONS

- 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	350 mm
	Width	167 mm
	Height	179 mm
	Total Height	179 mm
Weight	20.4 kg	
Nominal Capacity (25°C)	20 hours rate (1.80)	68.2 Ah
	10 hours rate (1.80)	64.8 Ah
	5 hours rate (1.75)	57.0 Ah
	1 hour rate (1.60)	40.3 Ah
Internal Resistance (fully charged, 25°C)	6.00 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	19.5 A	
Maximum discharge current (25°C)	650 A (5 sec.)	
Short Circuit Current (25°C)	1720 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)

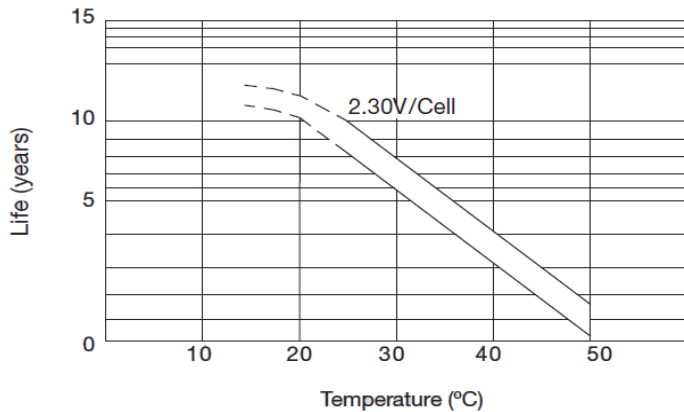
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	137	107	65.0	40.3	23.8	16.6	13.6	11.6	7.96	6.61	3.47
1.65V	132	105	63.7	39.7	23.6	16.5	13.5	11.5	7.91	6.58	3.47
1.70V	127	101	61.8	38.7	23.4	16.4	13.4	11.5	7.85	6.56	3.46
1.75V	121	97.4	60.3	37.9	23.0	16.3	13.3	11.4	7.80	6.50	3.44
1.80V	115	92.2	58.0	36.8	22.5	15.8	12.9	11.0	7.57	6.48	3.41

Discharge Constant Power at 25°C (Watts)

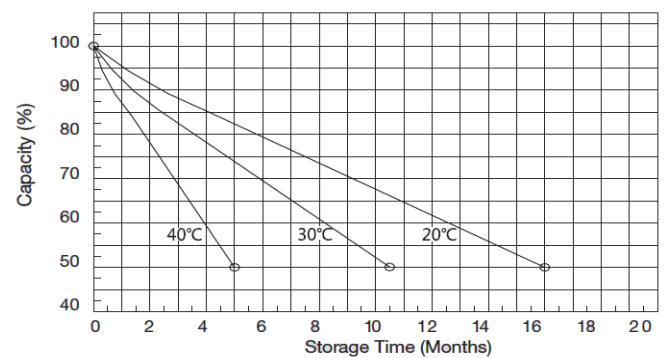
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	1474	1178	729	459	275	195	160	137	94.5	79.1	41.7
1.65V	1430	1149	715	453	273	194	159	136	94.0	78.8	41.6
1.70V	1371	1107	693	441	271	192	158	135	93.3	78.2	41.5
1.75V	1312	1069	676	432	267	191	157	134	92.7	77.6	41.2
1.80V	1238	1013	651	419	260	185	152	130	89.9	77.1	41.0

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

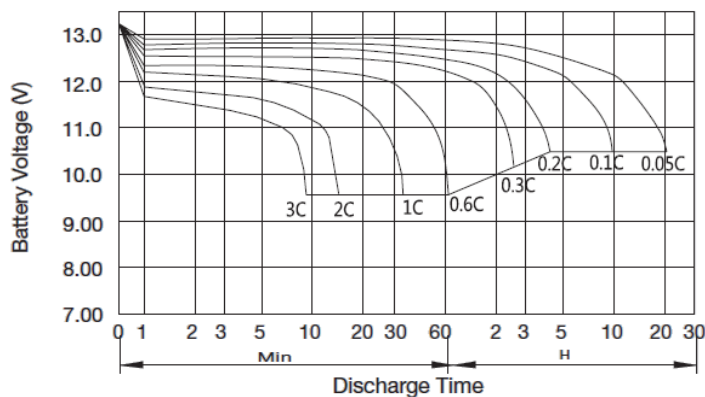
Temperature Effects on Float Life



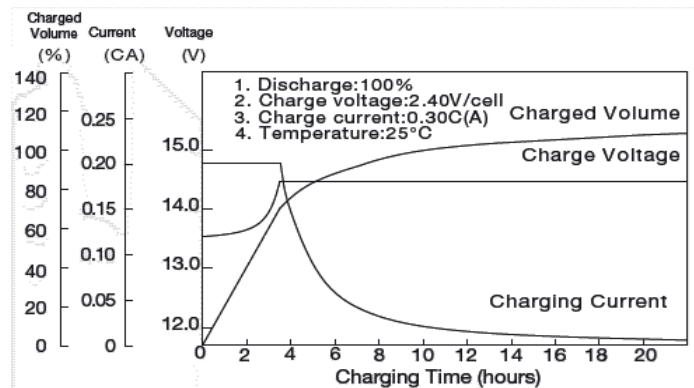
Self Discharge Characteristics



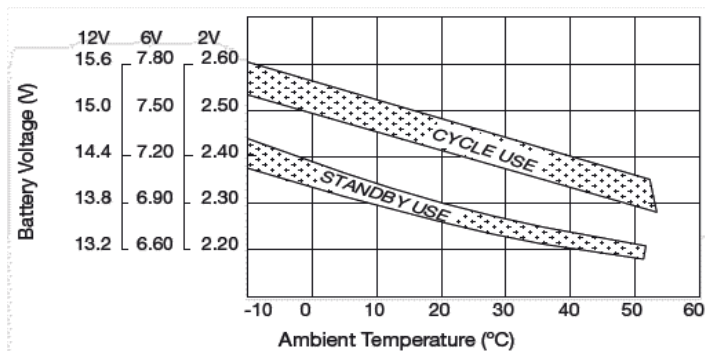
Discharge Characteristics (25°C)



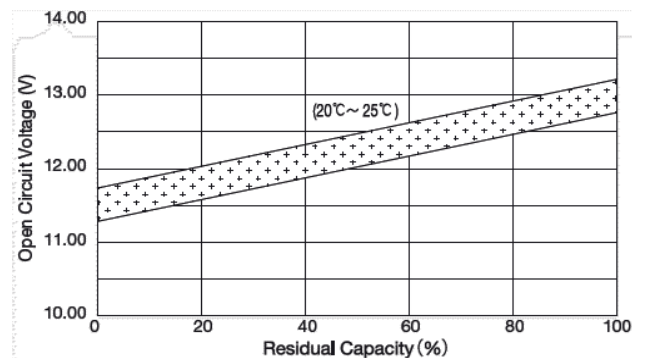
Charging Characteristics (25°C)



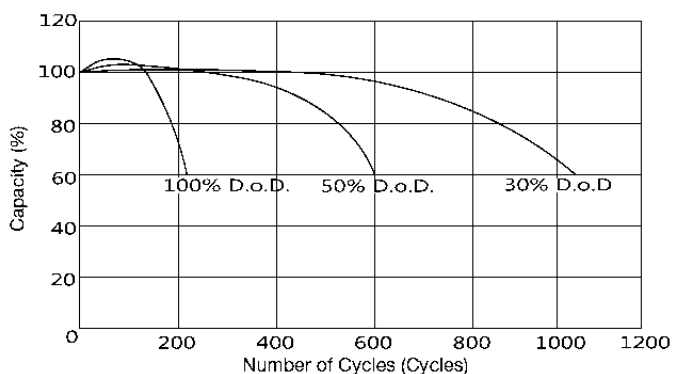
Relationship Between Charging Voltage and Temperature



Relationship Between OCV and Residual Capacity (25°C)



Cycle Service Life in Relation to Depth of Discharge



Temperature effects on capacity

