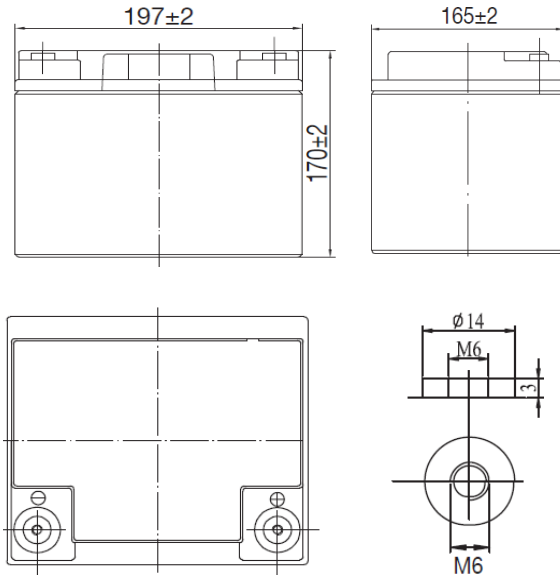


APPLICATIONS

- 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	197 mm
	Width	165 mm
	Height	170 mm
	Total Height	170 mm
Weight	12.5 kg	
Nominal Capacity (25°C)	20 hours rate (1.80)	42.0 Ah
	10 hours rate (1.80)	40.0 Ah
	5 hours rate (1.75)	35.0 Ah
	1 hour rate (1.60)	24.8 Ah
Internal Resistance (fully charged, 25°C)	8.50 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	12.0 A	
Maximum discharge current (25°C)	400 A (5 sec.)	
Short Circuit Current (25°C)	1050 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)

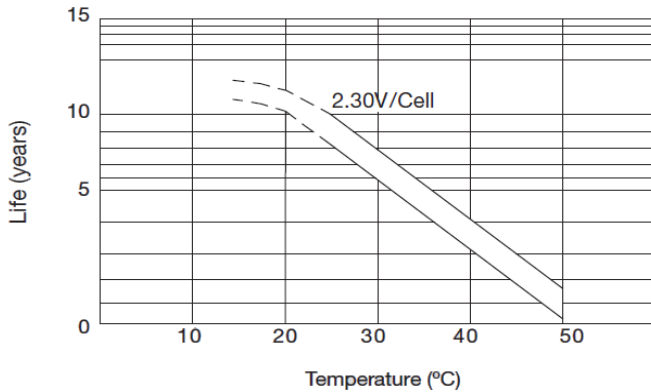
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	84.0	66.0	40.0	24.8	14.6	10.2	8.36	7.14	4.90	4.07	2.14
1.65V	81.5	64.4	39.2	24.4	14.5	10.1	8.31	7.10	4.87	4.06	2.13
1.70V	78.1	62.0	38.0	23.8	14.4	10.1	8.26	7.05	4.83	4.05	2.13
1.75V	74.8	59.9	37.1	23.3	14.2	10.0	8.20	7.00	4.80	4.03	2.11
1.80V	70.6	56.8	35.7	22.6	13.8	9.70	7.95	6.79	4.66	4.00	2.10

Discharge Constant Power at 25°C (Watts)

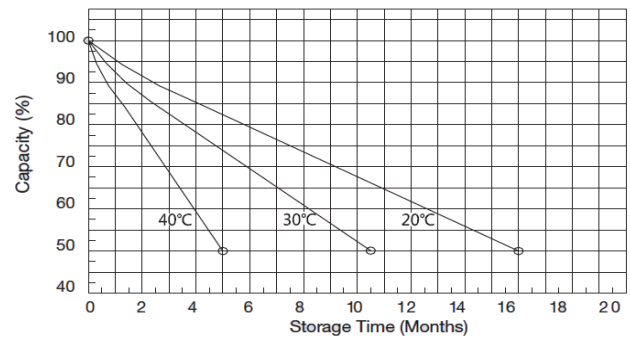
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	907	725	449	283	169	120	98.4	84.4	58.2	48.6	25.7
1.65V	880	707	440	278	168	119	97.8	83.9	57.8	48.5	25.6
1.70V	844	681	426	271	167	118	97.1	83.3	57.4	48.4	25.5
1.75V	807	658	416	266	164	118	96.4	82.7	57.0	48.1	25.4
1.80V	762	623	401	258	160	114	93.5	80.3	55.3	47.8	25.2

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

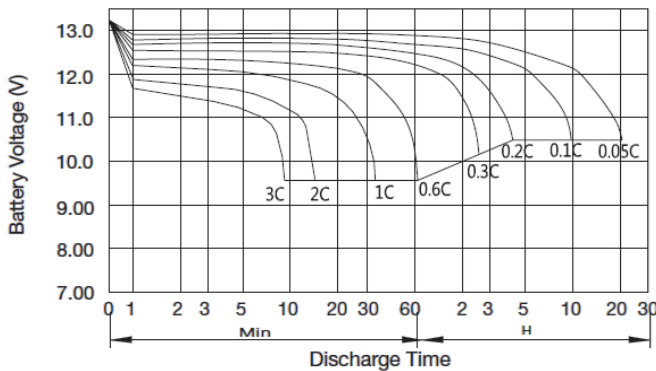
Temperature Effects on Float Life



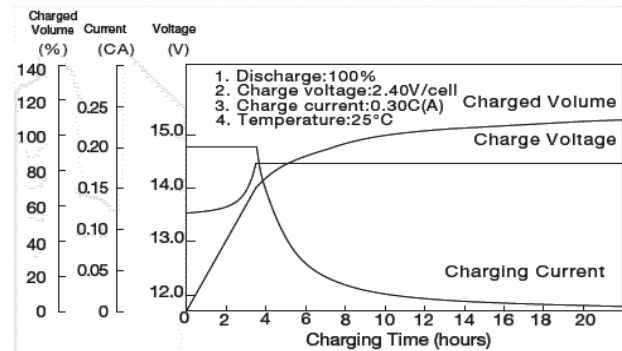
Self Discharge Characteristics



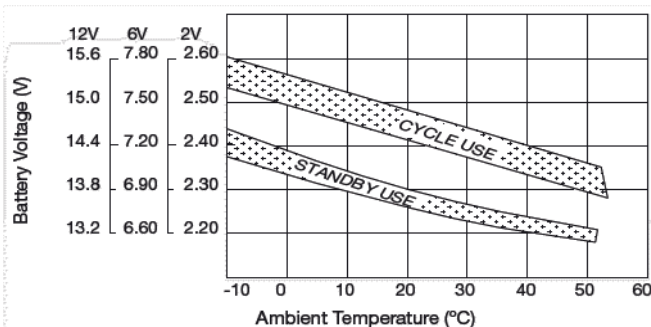
Discharge Characteristics (25°C)



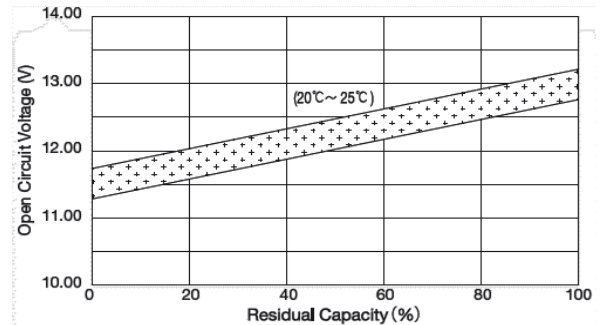
Charging Characteristics (25°C)



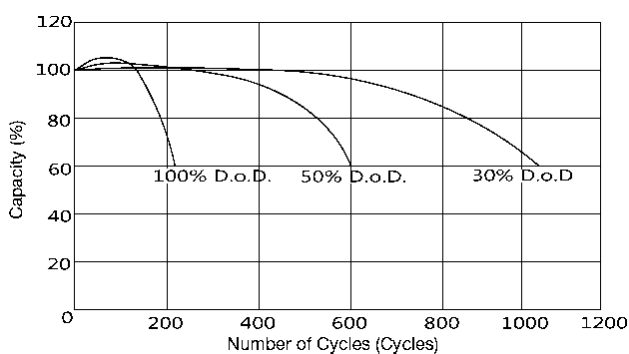
Relationship Between Charging Voltage and Temperature



Relationship Between OCV and Residual Capacity (25°C)



Cycle Service Life in Relation to Depth of Discharge



Temperature effects on capacity

