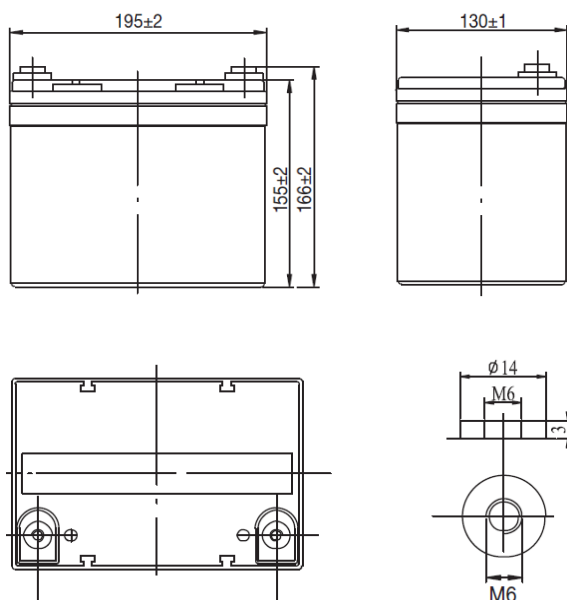


APPLICATIONS

- 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	195 mm
	Width	130 mm
	Height	155 mm
	Total Height	166 mm
Weight		10.0 kg
Nominal Capacity (25°C)	20 hours rate (1.80)	34.6 Ah
	10 hours rate (1.80)	33.0 Ah
	5 hours rate (1.75)	28.9 Ah
	1 hour rate (1.70)	19.6 Ah
Internal Resistance (fully charged, 25°C)		11.0 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		9.9 A
Maximum discharge current (25°C)		330 A (5 sec.)
Short Circuit Current (25°C)		1200 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)

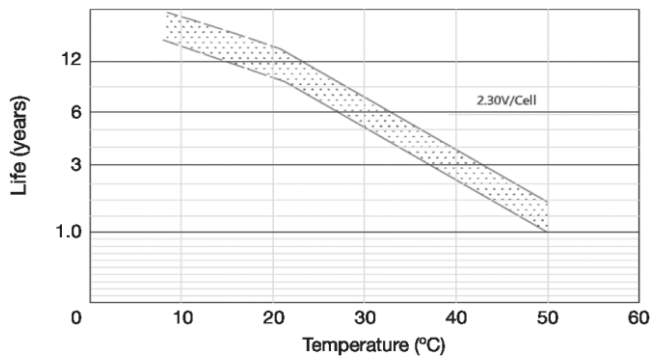
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	67.2	53.4	32.3	20.5	12.1	8.42	6.90	5.89	4.04	3.36	1.76
1.65V	65.2	52.1	31.7	20.2	12.0	8.37	6.86	5.86	4.02	3.35	1.76
1.70V	62.5	50.2	30.7	19.6	11.9	8.31	6.81	5.82	3.99	3.34	1.76
1.75V	59.8	48.5	30.0	19.3	11.7	8.25	6.77	5.78	3.96	3.32	1.74
1.80V	56.5	45.9	28.9	18.7	11.4	8.00	6.56	5.60	3.84	3.30	1.73

Discharge Constant Power at 25°C (Watts)

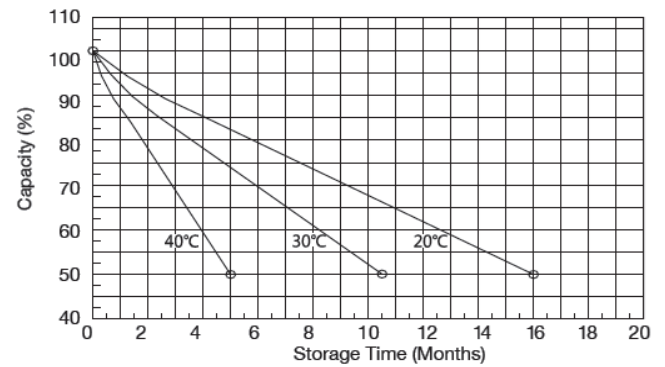
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	726	586	363	233	140	99.0	81.1	69.6	48.0	40.1	21.2
1.65V	704	572	356	230	139	98.4	80.7	69.2	47.7	40.0	21.1
1.70V	675	551	345	224	138	97.7	80.1	68.7	47.4	39.9	21.1
1.75V	646	532	336	219	136	97.0	79.6	68.3	47.0	39.7	20.9
1.80V	610	504	324	213	132	94.1	77.2	66.2	45.6	39.4	20.8

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

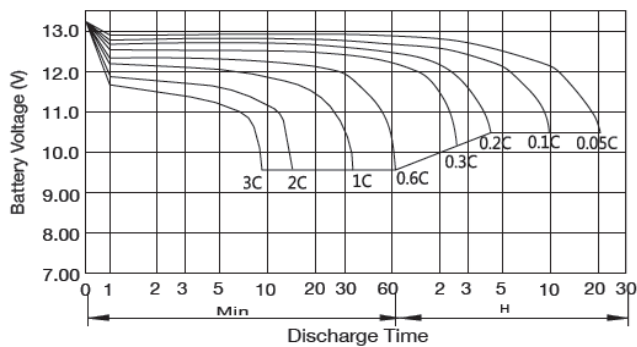
Temperature Effects on Float Life



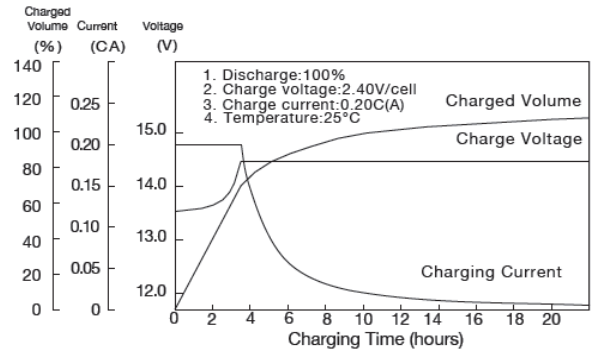
Self Discharge Characteristics



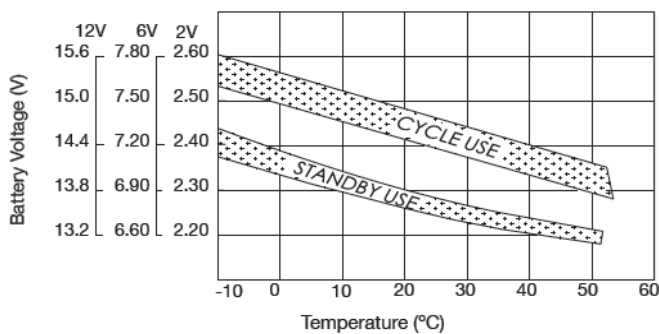
Discharge Characteristics (25°C)



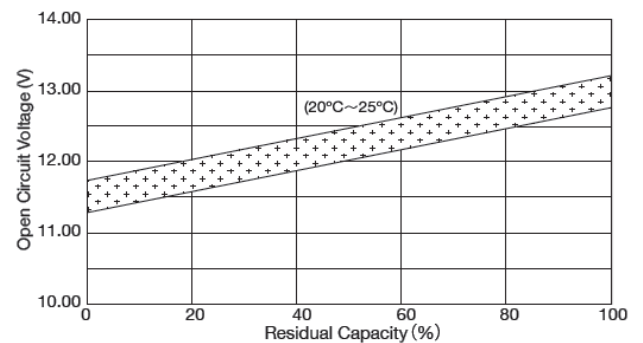
Charging Characteristics (25°C)



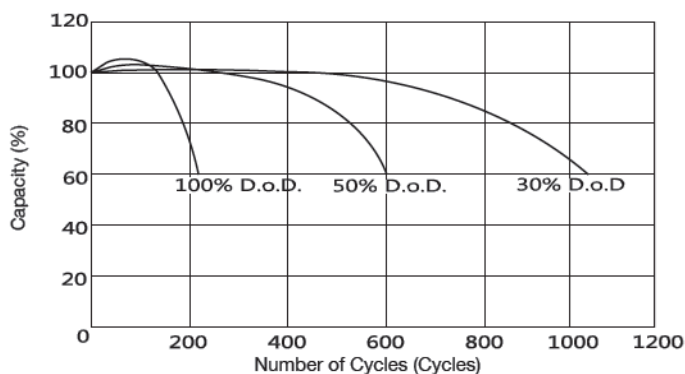
Relationship Between Charging Voltage and Temperature



Relationship Between OCV and Residual Capacity (25°C)



Cycle Service Life in Relation to Depth of Discharge



Temperature Effects on Capacity

