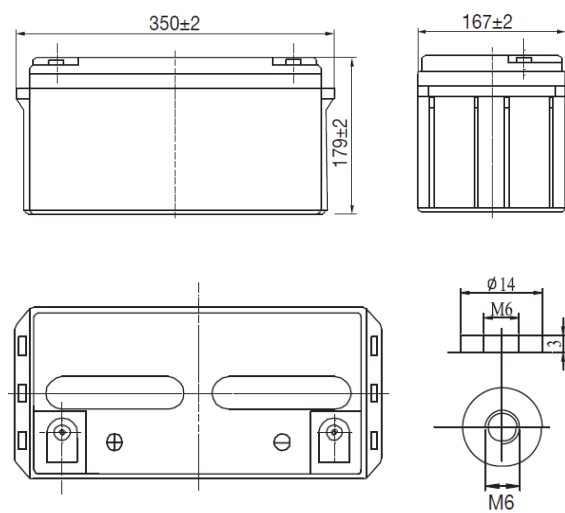


APPLICATIONS

- 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	350 mm
	Width	167 mm
	Height	179 mm
	Total Height	179 mm
Weight		22.5 kg
Nominal Capacity (25°C)	20 hours rate (1.80)	68.2 Ah
	10 hours rate (1.80)	65.0 Ah
	5 hours rate (1.75)	57.0 Ah
	1 hour rate (1.70)	38.7 Ah
Internal Resistance (fully charged, 25°C)		6.0 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		19.5 A
Maximum discharge current (25°C)		650 A (5 sec.)
Short Circuit Current (25°C)		2000 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)

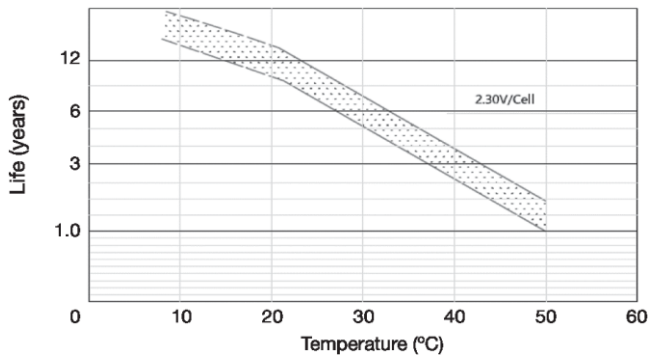
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	132	105	63.7	40.3	23.8	16.6	13.6	11.6	7.96	6.62	3.47
1.65V	128	103	62.4	39.7	23.6	16.5	13.5	11.5	7.91	6.60	3.47
1.70V	123	98.8	60.5	38.7	23.4	16.4	13.4	11.5	7.85	6.58	3.46
1.75V	118	95.4	59.0	37.9	23.0	16.3	13.3	11.4	7.80	6.55	3.44
1.80V	111	90.4	56.9	36.8	22.5	15.8	12.9	11.0	7.57	6.50	3.41

Discharge Constant Power at 25°C (Watts)

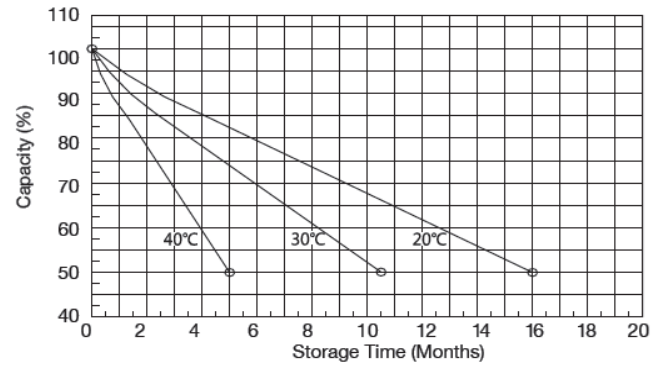
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	1430	1154	715	459	275	195	160	137	94.5	79.0	41.7
1.65V	1387	1126	700	453	273	194	159	136	94.0	78.9	41.6
1.70V	1330	1085	679	441	271	192	158	135	93.3	78.6	41.5
1.75V	1273	1048	663	432	267	191	157	134	92.7	78.2	41.2
1.80V	1201	992	638	419	260	185	152	130	89.9	77.6	41.0

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

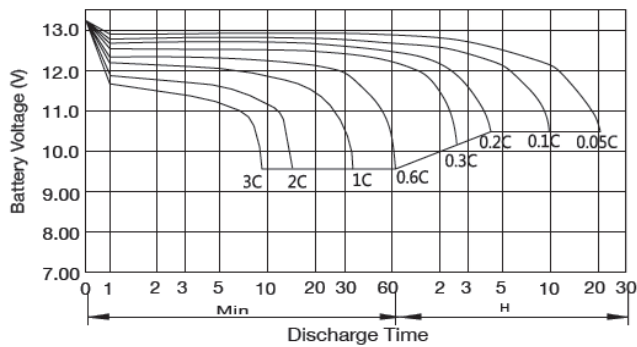
Temperature Effects on Float Life



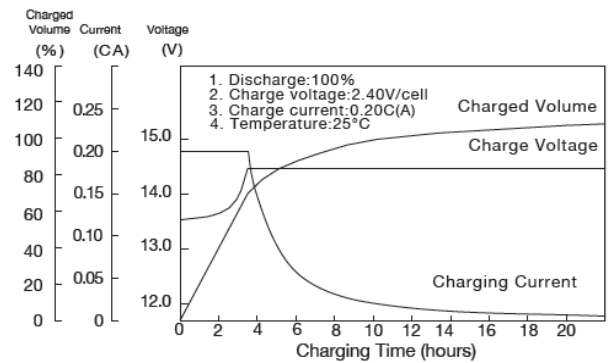
Self Discharge Characteristics



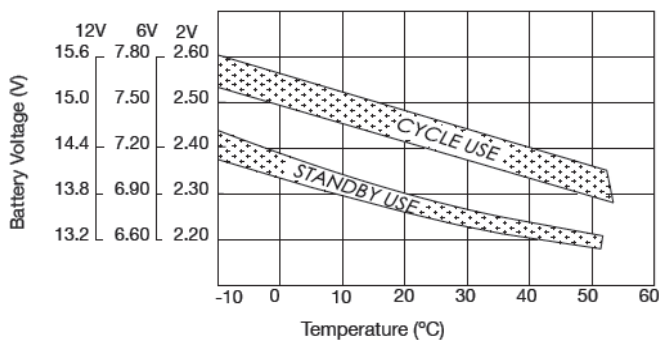
Discharge Characteristics (25°C)



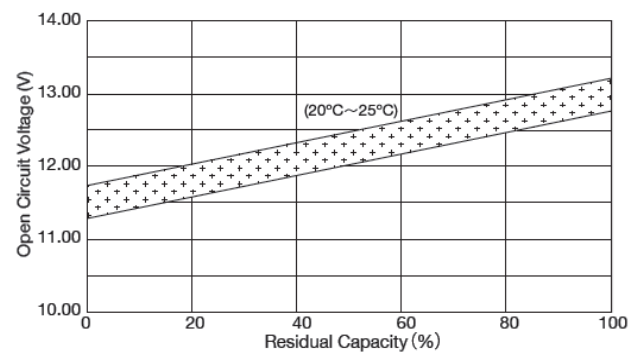
Charging Characteristics (25°C)



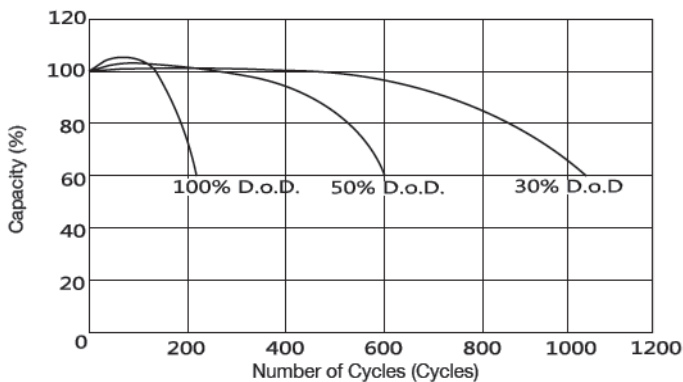
Relationship Between Charging Voltage and Temperature



Relationship Between OCV and Residual Capacity (25°C)



Cycle Service Life in Relation to Depth of Discharge



Temperature Effects on Capacity

