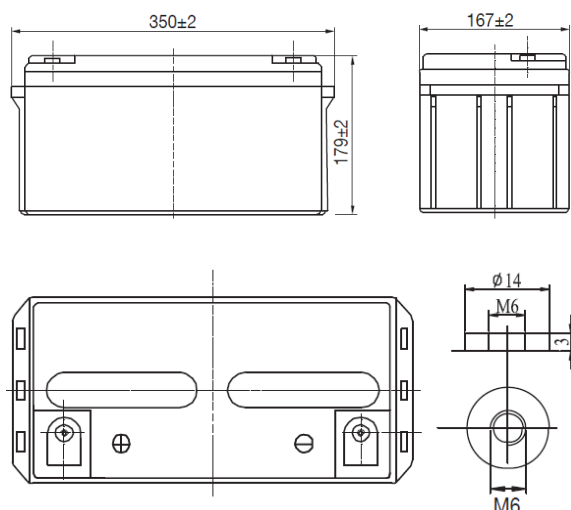


APPLICATIONS

- 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	24.0 kg	
Nominal Capacity (25°C)	20 hours rate (1.80)	84.6 Ah
	10 hours rate (1.80)	80.5 Ah
	5 hours rate (1.75)	70.0 Ah
	1 hour rate (1.70)	47.6 Ah
Internal Resistance (fully charged, 25°C)	4.0 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	24.0 A	
Maximum discharge current (25°C)	800 A (5 sec.)	
Short Circuit Current (25°C)	2600 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)

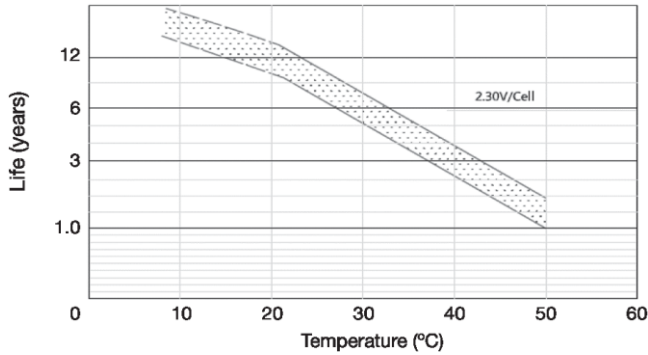
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	172	135	82.0	49.6	29.2	20.4	16.7	14.3	9.79	8.15	4.29
1.65V	167	132	80.4	48.9	29.1	20.3	16.6	14.2	9.73	8.14	4.29
1.70V	160	127	77.9	47.6	28.8	20.1	16.5	14.1	9.67	8.13	4.28
1.75V	153	123	76.0	46.7	28.4	20.0	16.4	14.0	9.60	8.10	4.25
1.80V	145	116	73.2	45.2	27.6	19.4	15.9	13.6	9.31	8.05	4.23

Discharge Constant Power at 25°C (Watts)

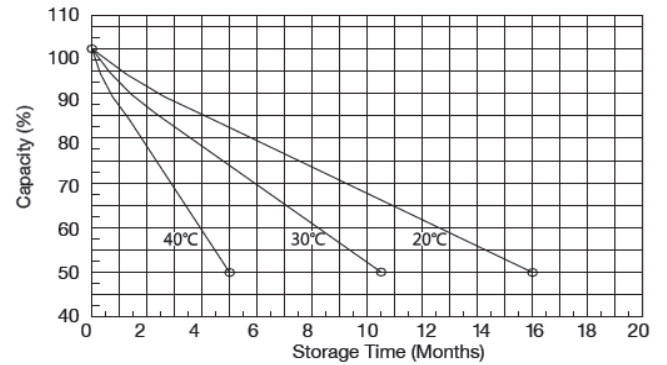
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	1860	1486	920	565	339	240	197	169	116	97.2	51.3
1.65V	1804	1450	902	557	337	238	196	168	116	97.0	51.2
1.70V	1730	1396	874	543	334	237	194	167	115	96.8	51.1
1.75V	1655	1349	853	532	329	235	193	165	114	96.2	50.8
1.80V	1562	1278	822	516	320	228	187	161	111	95.5	50.4

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

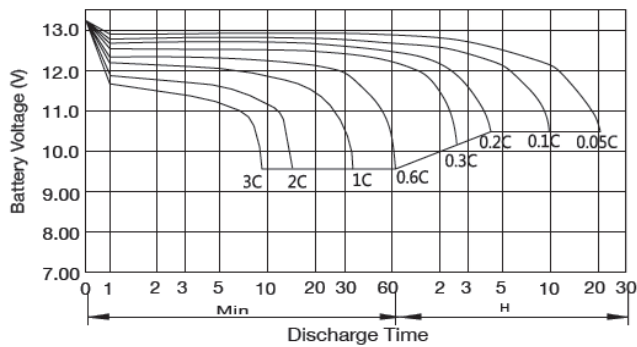
Temperature Effects on Float Life



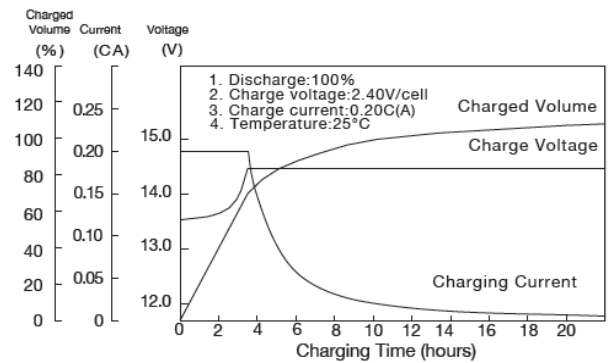
Self Discharge Characteristics



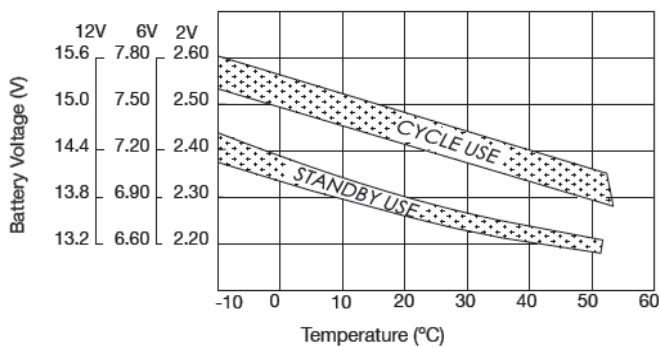
Discharge Characteristics (25°C)



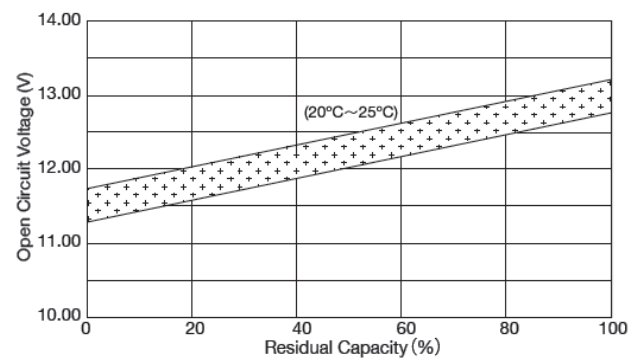
Charging Characteristics (25°C)



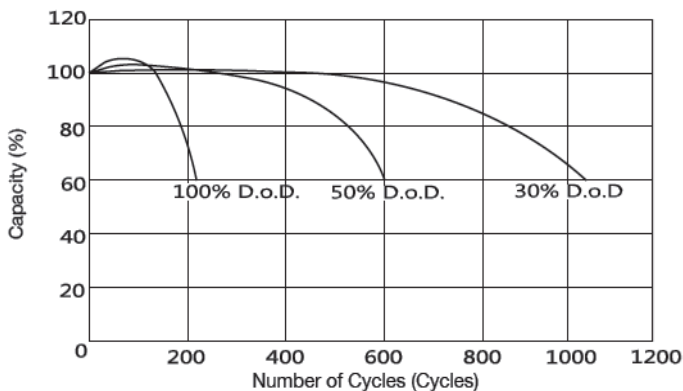
Relationship Between Charging Voltage and Temperature



Relationship Between OCV and Residual Capacity (25°C)



Cycle Service Life in Relation to Depth of Discharge



Temperature Effects on Capacity

