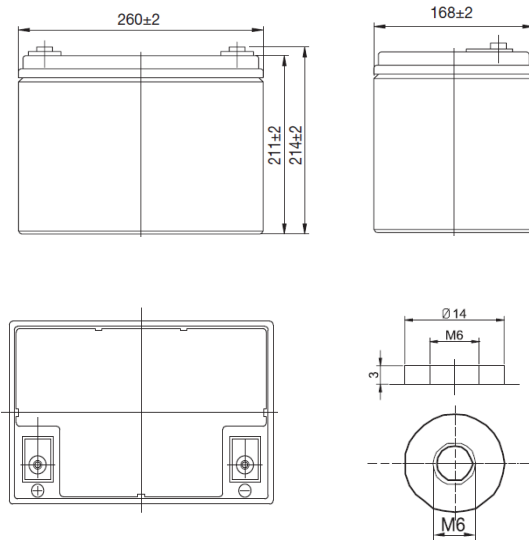


APPLICATIONS

- 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	260 mm
	Width	168 mm
	Height	211 mm
	Total Height	214 mm
Weight		22.0 kg
Nominal Capacity (25°C)	20 hours rate (1.80)	78.8 Ah
	10 hours rate (1.80)	75.0 Ah
	5 hours rate (1.75)	65.5 Ah
	1 hour rate (1.60)	46.5 Ah
Internal Resistance (fully charged, 25°C)		7.00 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		22.5 A
Maximum discharge current (25°C)		750 A (5 sec.)
Short Circuit Current (25°C)		1985 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)

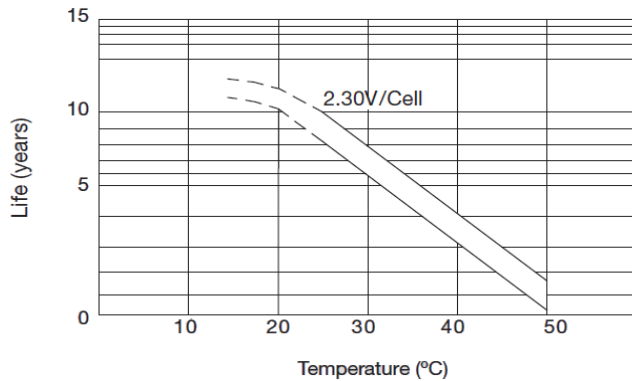
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	158	124	75.0	46.5	27.4	19.1	15.7	13.4	9.18	7.64	4.01
1.65V	153	121	73.5	45.8	27.2	19.0	15.6	13.3	9.13	7.62	4.00
1.70V	146	116	71.3	44.6	27.0	18.9	15.5	13.2	9.06	7.60	3.99
1.75V	140	112	69.5	43.8	26.6	18.8	15.4	13.1	9.00	7.55	3.97
1.80V	132	106	67.0	42.4	25.9	18.2	14.9	12.7	8.73	7.50	3.94

Discharge Constant Power at 25°C (Watts)

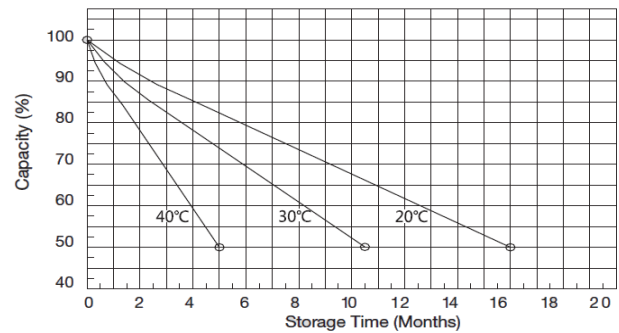
End Voltage (V/cell)	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
1.60V	1701	1359	842	530	317	225	184	158	109	91.2	48.1
1.65V	1650	1326	825	522	315	224	183	157	108	91.0	48.0
1.70V	1582	1277	799	509	313	222	182	156	108	90.7	47.9
1.75V	1514	1234	780	499	308	221	181	155	107	90.2	47.6
1.80V	1429	1169	751	483	300	214	175	150	104	89.6	47.3

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

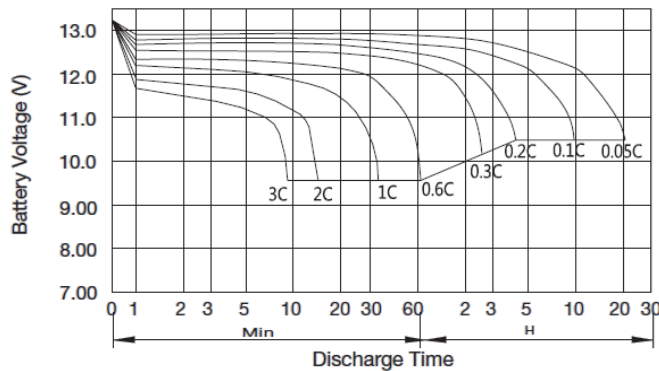
Temperature Effects on Float Life



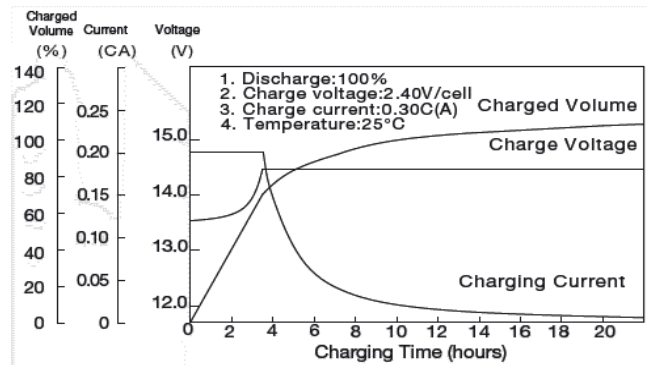
Self Discharge Characteristics



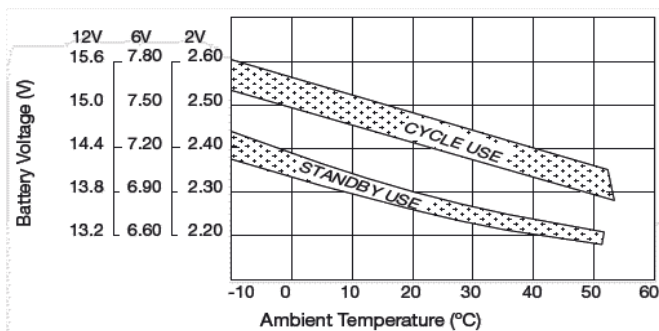
Discharge Characteristics (25°C)



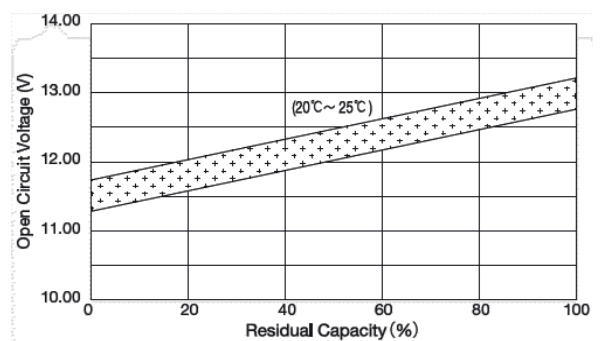
Charging Characteristics (25°C)



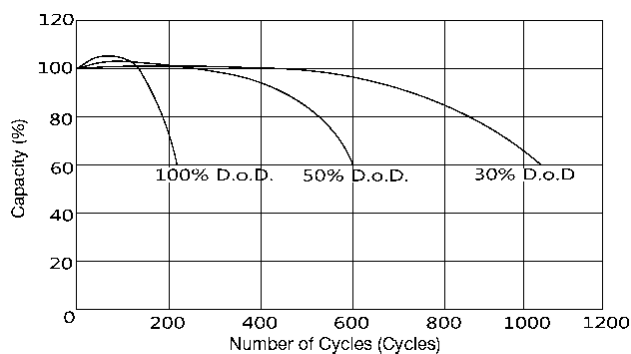
Relationship Between Charging Voltage and Temperature



Relationship Between OCV and Residual Capacity (25°C)



Cycle Service Life in Relation to Depth of Discharge



Temperature effects on capacity

