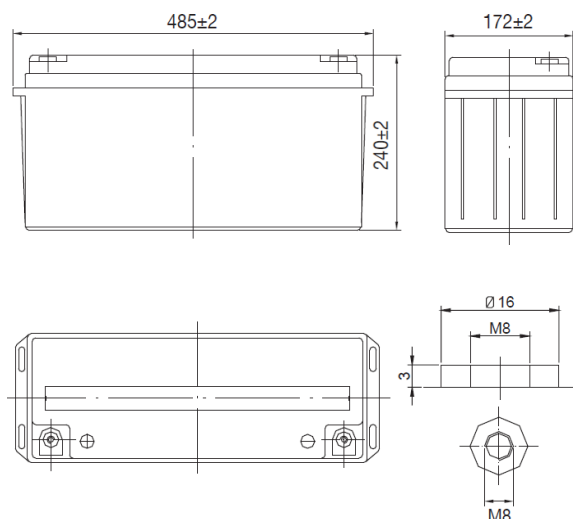


APPLICATIONS

- 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	485 mm
	Width	172 mm
	Height	240 mm
	Total Height	240 mm
Weight	45.5 kg	
Nominal Capacity (25°C)	20 hours rate (1.80)	157.6 Ah
	10 hours rate (1.80)	150.0 Ah
	5 hours rate (1.75)	131.5 Ah
	1 hour rate (1.70)	89.3 Ah
Internal Resistance (fully charged, 25°C)	3.5 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	45.0 A	
Maximum discharge current (25°C)	1200 A (5 sec.)	
Short Circuit Current (25°C)	3450 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)

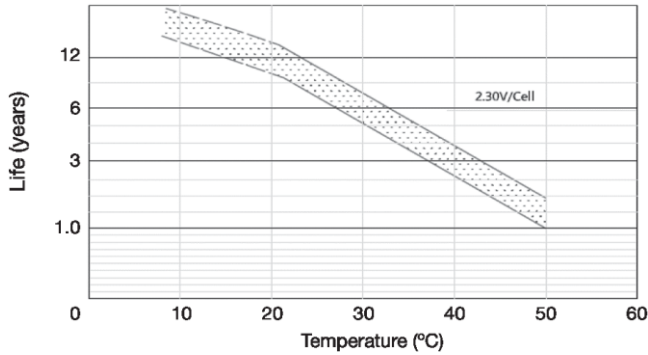
End Voltage (V/cell)	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	243	147	93.0	54.8	38.3	31.4	26.8	23.4	18.4	15.3	8.02
1.65V	237	144	91.6	54.5	38.0	31.2	26.6	23.3	18.3	15.2	8.00
1.70V	228	140	89.3	54.0	37.8	31.0	26.4	23.1	18.1	15.2	7.98
1.75V	220	136	87.5	53.2	37.5	30.8	26.3	23.0	18.0	15.1	7.93
1.80V	209	131	84.8	51.8	36.4	29.8	25.5	22.3	17.5	15.0	7.88

Discharge Constant Power at 25°C (Watts)

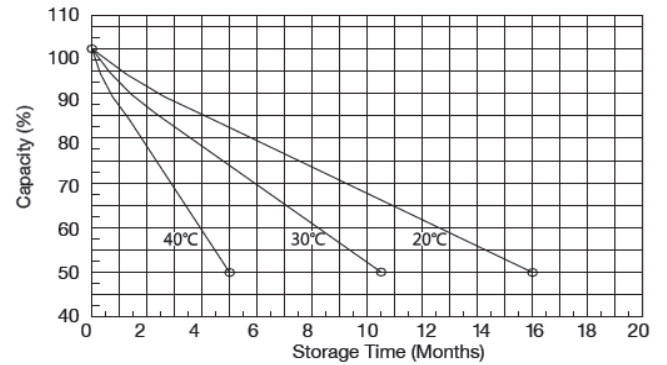
End Voltage (V/cell)	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.60V	2663	1649	1060	635	450	369	316	277	218	182	96.2
1.65V	2599	1616	1044	631	447	367	315	275	217	182	96.0
1.70V	2503	1567	1018	625	444	364	312	273	215	181	95.7
1.75V	2418	1529	998	616	441	362	310	271	214	180	95.2
1.80V	2290	1473	967	600	428	351	301	263	207	179	94.5

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

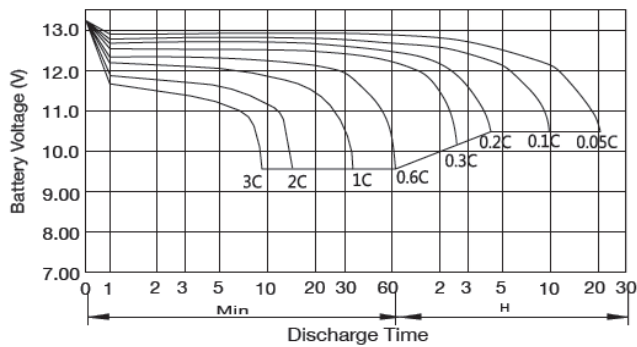
Temperature Effects on Float Life



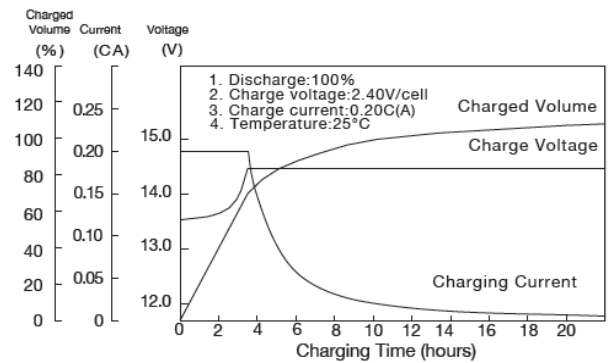
Self Discharge Characteristics



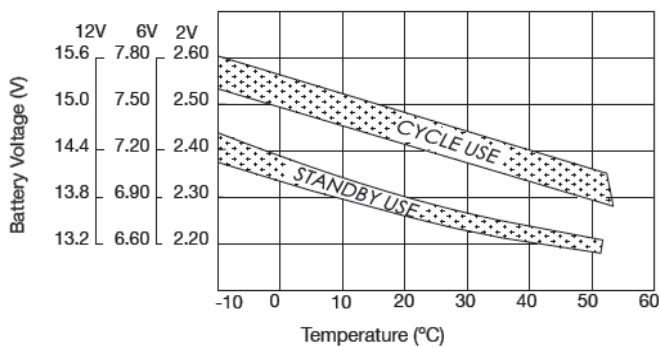
Discharge Characteristics (25°C)



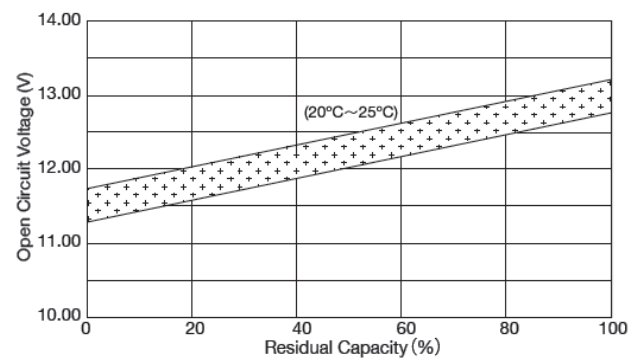
Charging Characteristics (25°C)



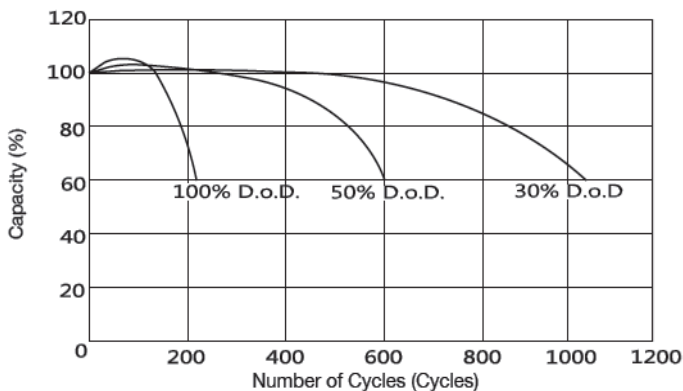
Relationship Between Charging Voltage and Temperature



Relationship Between OCV and Residual Capacity (25°C)



Cycle Service Life in Relation to Depth of Discharge



Temperature Effects on Capacity

