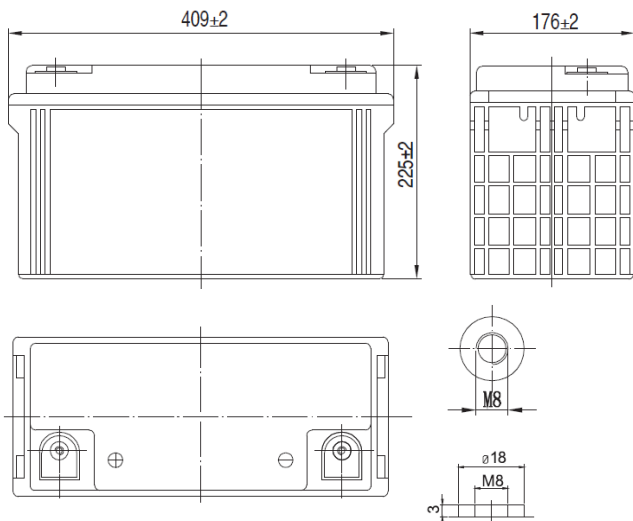


APPLICATIONS

- Solar & Wind power systems
- Power plants
- Uninterruptible Power Supply (UPS)
- Telecommunication Systems
- Electric wheelchairs
- Remote monitoring and controlling
- Solar street lighting
- Water pumping systems



SPECIFICATIONS

Nominal Voltage	12 V	
Number of cells	6	
Cycle Life	Approx. 1200 cycles at 50% DoD	
Design Floating Life (20°C)	12 years	
Dimensions	Length	409 mm
	Width	176 mm
	Height	225 mm
	Total Height	225 mm
Weight	34.5 kg	
Nominal Capacity (25°C)	120 hours rate (1.85)	143 Ah
	10 hours rate (1.80)	121 Ah
	5 hours rate (1.75)	101 Ah
	1 hours rate (1.60)	72.8 Ah
Internal Resistance (fully charged, 25°C)	5 mOhm	
Self Discharge	approx. 3% per month at 20°C	
Nominal Operating Temperature	25°C	
Operating Temperature range	Discharge	-15°C to 65°C
	Charge	-10°C to 60°C
	Storage	-20°C to 60°C
Float Charging Voltage	2.27 to 2.30 V/cell at 25°C	
Temperature compensation	-18mV/°C	
Cyclic Charging Voltage	2.40 to 2.47 V/cell at 25°C	
Temperature compensation	-30mV/°C	
Maximum charging current	30 A	
Maximum discharge current (25°C)	1200 A (5 sec.)	
Short Circuit Current	1800 A	

PERFORMANCE DATA

Discharge Constant Current at 25°C (Amperes)

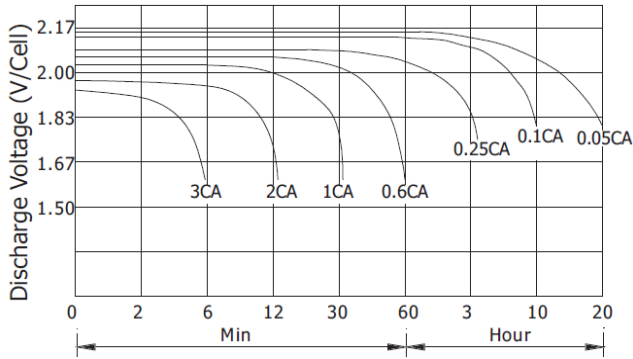
End Voltage (V/cell)	10min	15min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	120h
1.60 V	241	184	116	92.4	72.8	43.7	29.7	23.5	20.5	14.6	12.4	6.34	----
1.65 V	235	180	114	91.1	71.6	43.4	29.5	23.3	20.4	14.6	12.4	6.33	----
1.70 V	225	173	110	88.4	69.8	43.0	29.3	23.2	20.3	14.4	12.3	6.31	----
1.75 V	216	168	108	86.9	68.5	42.4	29.1	23.0	20.1	14.3	12.2	6.29	----
1.80 V	203	159	104	83.5	66.4	41.3	28.2	22.3	19.5	13.8	12.1	6.25	1.21
1.85 V	200	156	103	82.2	65.4	40.7	27.8	22.0	19.2	13.6	11.9	6.15	1.19

Discharge Constant Power at 25°C (Watts/Cell)

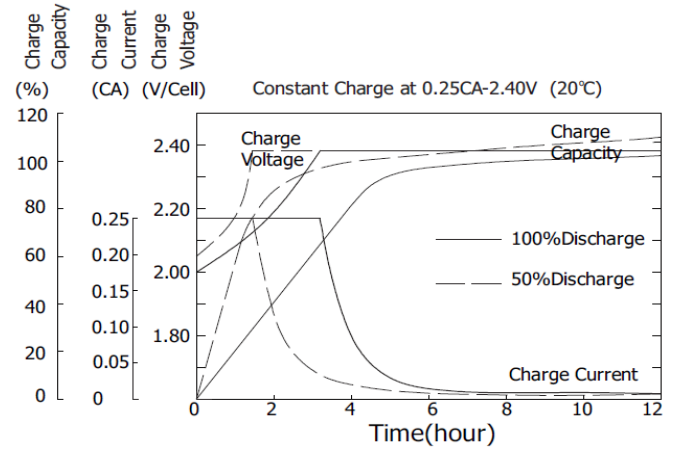
End Voltage (V/cell)	10min	15min	30min	45min	1h	2h	3h	4h	5h	8h	10h	20h	120h
1.60 V	455	337	217	179	138	84.3	58.0	45.9	40.4	28.9	24.6	12.7	----
1.65 V	445	329	213	176	136	83.8	57.7	45.7	40.2	28.8	24.6	12.7	----
1.70 V	424	317	207	170	133	83.0	57.4	45.5	39.9	28.5	24.4	12.6	----
1.75 V	407	306	202	167	130	81.9	57.1	45.2	39.6	28.3	24.3	12.6	----
1.80 V	383	290	194	161	126	79.8	55.4	43.8	38.4	27.4	24.1	12.5	2.41
1.85 V	377	286	191	158	124	78.6	54.6	43.1	37.8	27.0	23.7	12.3	2.37

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

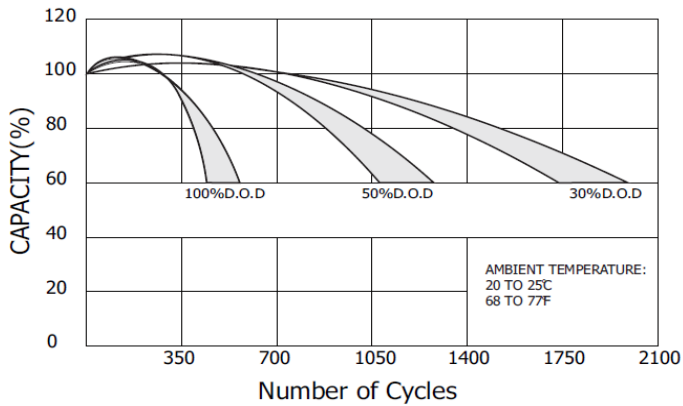
Discharge Characteristics (20°C)



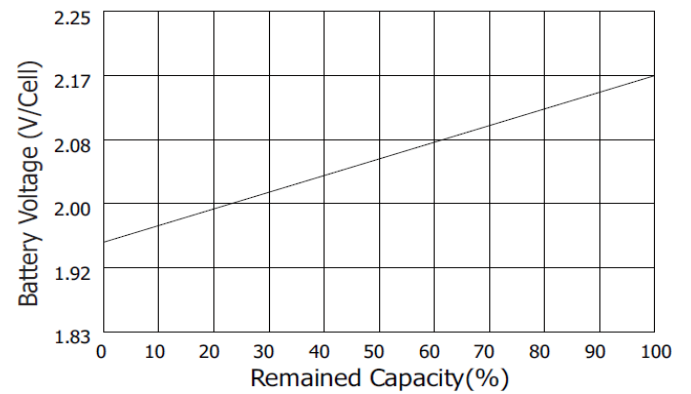
Charging Characteristics (20°C)



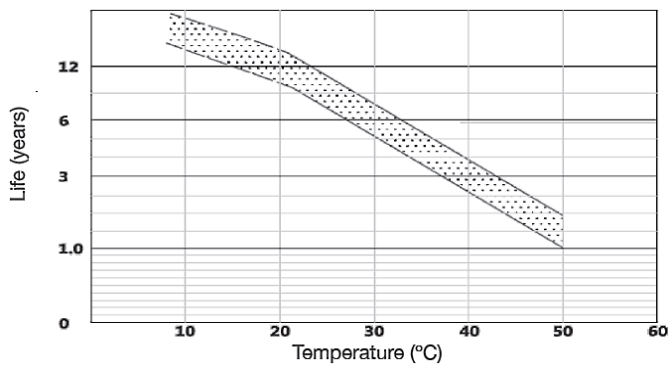
Cycle Service Life in Relation to Depth of Discharge



Relationship Between OCV and Residual Capacity (20°C)



Temperature Effects on Float Life



Self Discharge Characteristics

