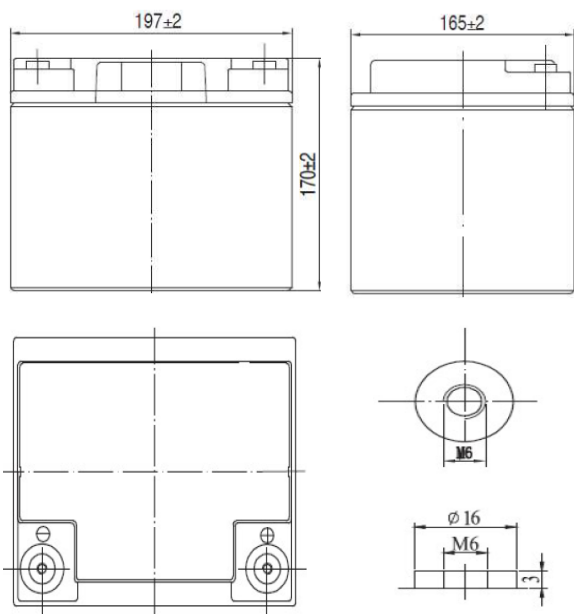


APPLICATIONS

- Solar / Wind power systems
- Residential installations
- Golf carts and electric powered vehicles
- Marine equipment
- Electric wheelchairs
- Traffic systems (signaling and lighting)
- Remote monitoring and controlling
- Power tools and cleaning machines
- Uninterruptible power supply (UPS)



SPECIFICATIONS

Nominal Voltage	12 V	
Number of cells	6	
Cycle life	Approx. 800 cycles at 50% DOD	
Dimensions	Length	197 mm
	Width	165 mm
	Height	170 mm
	Total Height	170 mm
Weight	12.5 kg	
Nominal Capacity (25°C)	120 hours rate (1.85)	44.4 Ah
	100 hours rate (1.85)	45.0 Ah
	48 hours rate (1.80)	44.2 Ah
	10 hours rate (1.80)	40.4 Ah
Internal Resistance (fully charged, 25°C)	8.5 mOhm	
Self Discharge	approx. 3% per month at 25°C	
Nominal Operating Temperature	25°C	
Operating Temperature range	Discharge	-15°C to 45°C
	Charge	0°C to 40°C
	Storage	-15°C to 40°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	12.0 A	
Maximum discharge current (25°C)	400 A (5 sec.)	
Short Circuit Current (25°C)	600 A	

PERFORMANCE DATA

Discharge Constant Current at 25°C (Amperes)

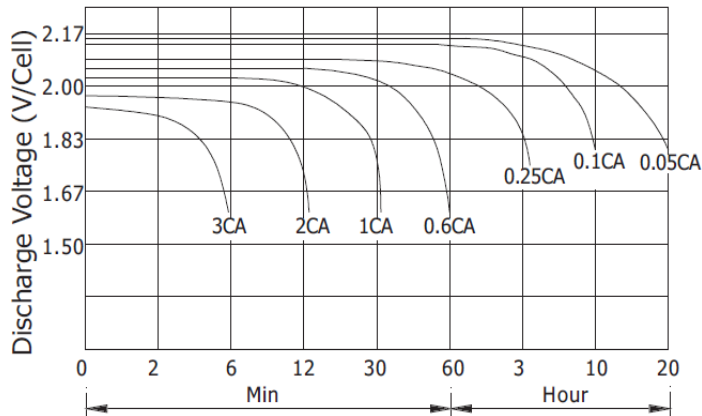
End Voltage (V/cell)	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	72h	100h	120h
1.60V	67.4	40.8	25.2	14.7	10.3	8.44	7.22	6.26	4.93	4.12	2.16	----	----	----	----
1.65V	65.8	40.0	24.9	14.6	10.3	8.39	7.14	6.18	4.93	4.12	2.15	----	----	----	----
1.70V	63.4	38.7	24.2	14.5	10.2	8.31	7.10	6.18	4.89	4.08	2.15	0.94	----	----	----
1.75V	60.9	37.7	23.8	14.3	10.1	8.27	7.06	6.13	4.85	4.08	2.14	0.93	0.67	----	----
1.80V	57.7	36.4	23.0	13.9	9.81	8.03	6.86	5.93	4.69	4.04	2.12	0.92	0.62	----	----
1.85V	54.8	34.6	21.9	13.2	9.31	7.63	6.52	5.63	4.45	3.84	2.02	0.88	0.59	0.45	0.37

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

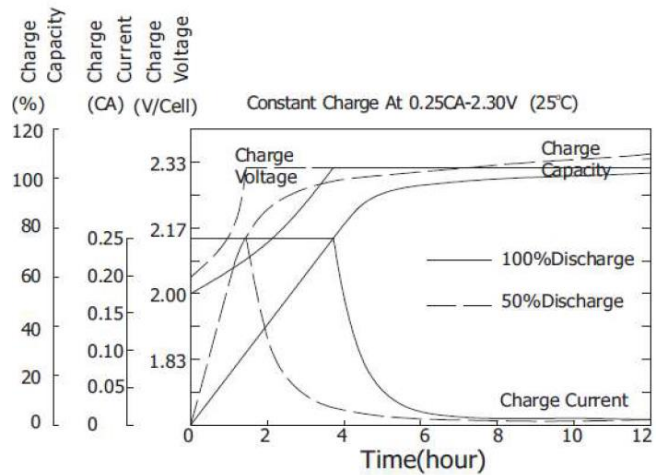
End Voltage (V/cell)	15min	30min	1h	2h	3h	4h	5h	6h	8h	10h	20h	48h	72h	100h	120h
1.60V	123	75.5	47.8	28.3	20.0	16.3	14.1	12.2	9.76	8.15	4.31	----	----	----	----
1.65V	120	74.3	47.3	28.1	19.8	16.3	14.0	12.1	9.76	8.15	4.31	----	----	----	----
1.70V	116	72.1	46.1	27.9	19.8	16.1	13.9	12.1	9.70	8.08	4.29	1.87	----	----	----
1.75V	112	70.5	45.2	27.6	19.7	16.1	13.8	12.0	9.63	8.08	4.28	1.87	1.26	----	----
1.80V	106	68.1	43.9	26.9	19.2	15.7	13.5	11.7	9.29	8.01	4.24	1.85	1.25	----	----
1.85V	101	64.7	41.7	25.6	18.2	15.0	12.8	11.1	8.82	7.61	4.02	1.75	1.18	0.88	0.75

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

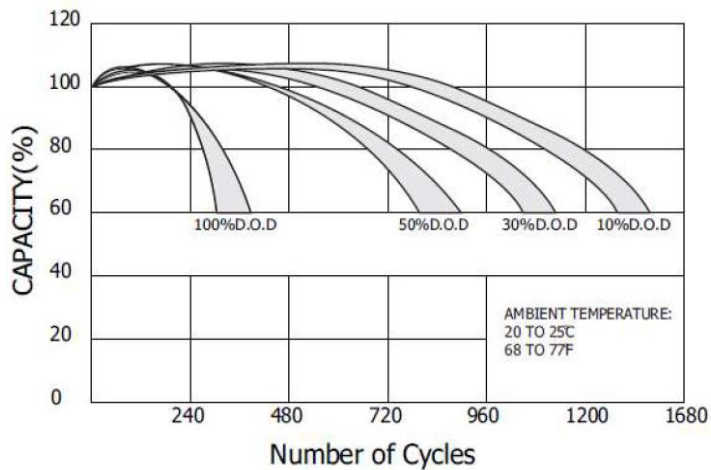
Discharge Characteristics (25°C)



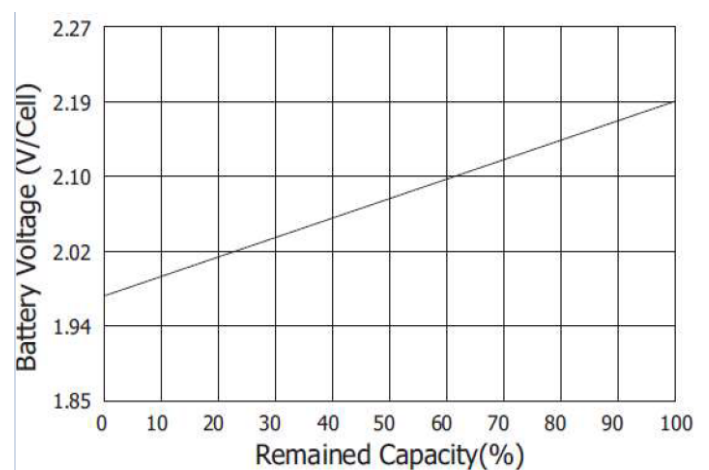
Charging Characteristics (25°C)



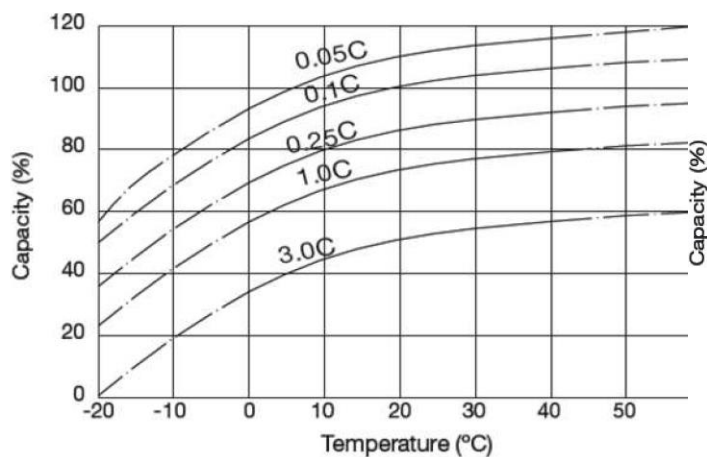
Cycle Service Life in Relation to Depth of Discharge



Relationship Between OCV and Residual Capacity (25°C)



Temperature Effects on Capacity



Self Discharge characteristics

