



SD6000-B672

RECHARGEABLE BATTERY

HX6-7



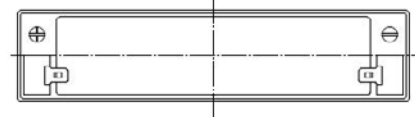
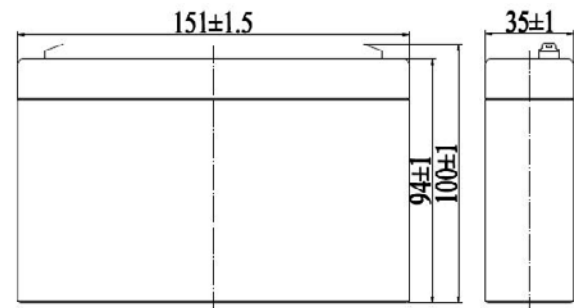
(6V7Ah)

SPECIFICATIONS

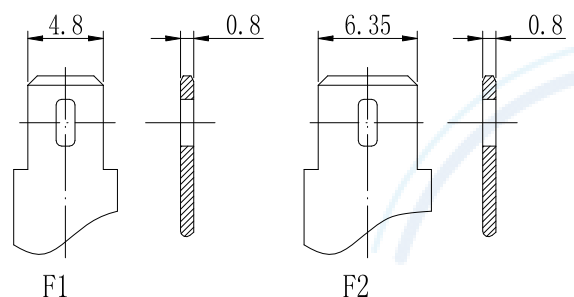
18 MONTHS WARRANTY

Nominal Voltage		6 V
Capacity (25°C)	20HR(5.25V)	7Ah
	10HR(5.25V)	6.5Ah
	1HR(4.80V)	4.5Ah
Dimension	Length	151 ± 1.5mm (5.94inch)
	Width	35 ± 1mm (1.38inch)
	Height	94 ± 1mm (3.70inch)
	Total Height	100 ± 1mm (3.94inch)
Approx. Weight		1.1kg (2.42lbs) ± 5%
Terminal type		F1/F2
Internal resistance (Fully charged, 25°C)		Approx. 18m Ω
Capacity affected by temperature (20HR)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3 month	Remaining Capacity: 91%
	6 month	Remaining Capacity: 82%
	12 month	Remaining Capacity: 65%
Nominal operating temperature		25°C ± 3°C (77°F ± 5°F)
Operating temperature range	Discharge	-15°C ~ 50°C (5°F ~ 122°F)
	Charge	-10°C ~ 50°C (14°F ~ 122°F)
	Storage	-20°C ~ 50°C (-4°F ~ 122°F)
Float charging voltage(25°C)		6.80 to 6.90V Temperature compensation: -9mV/°C
Cyclic charging voltage(25°C)		7.25 to 7.50V Temperature compensation: -15mV/°C
Maximum charging current		2.1A
Maximum discharge current		105A(5 sec.)
Designed floating life(20°C)		5 years

Dimensions



Terminal



Constant Current Discharge Characteristics (A, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
4.80V	26.7	16.9	13.2	7.46	4.59	2.51	1.74	1.44	1.22	0.66	0.36
4.95V	25.9	16.4	12.9	7.31	4.52	2.49	1.72	1.43	1.21	0.66	0.35
5.10V	24.9	15.8	12.4	7.08	4.40	2.47	1.71	1.42	1.21	0.66	0.35
5.25V	23.8	15.1	12.0	6.91	4.31	2.43	1.70	1.41	1.20	0.65	0.35
5.40V	22.5	14.2	11.4	6.66	4.18	2.37	1.65	1.36	1.16	0.64	0.34

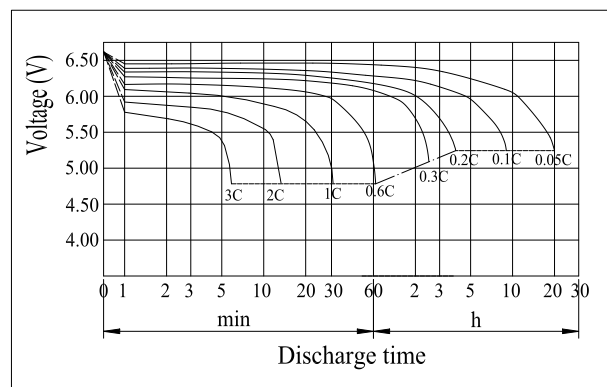
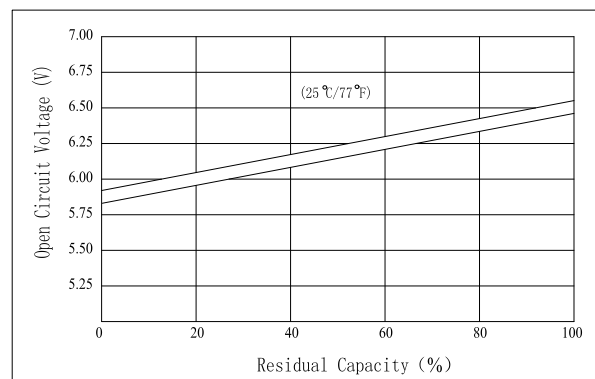
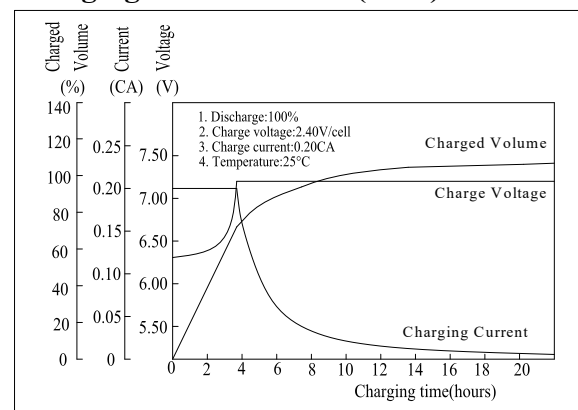
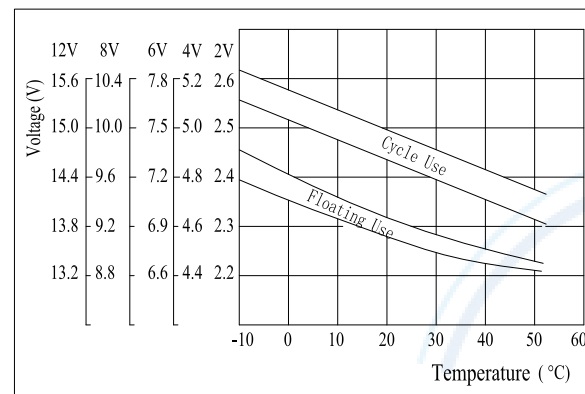
Constant Power Discharge Characteristics (Watt, 25°C)

F.V/TIME	5min	10min	15min	30min	60min	2h	3h	4h	5h	10h	20h
4.80V	149	95.5	75.4	42.7	26.5	14.7	10.3	8.55	7.29	3.98	2.13
4.95V	145	92.7	73.6	41.9	26.1	14.6	10.2	8.50	7.25	3.96	2.12
5.10V	139	88.9	70.9	40.6	25.5	14.5	10.2	8.44	7.20	3.94	2.11
5.25V	133	85.0	68.5	39.6	25.0	14.2	10.1	8.38	7.15	3.92	2.10
5.40V	125	80.3	64.9	38.1	24.2	13.9	9.80	8.13	6.93	3.84	2.06

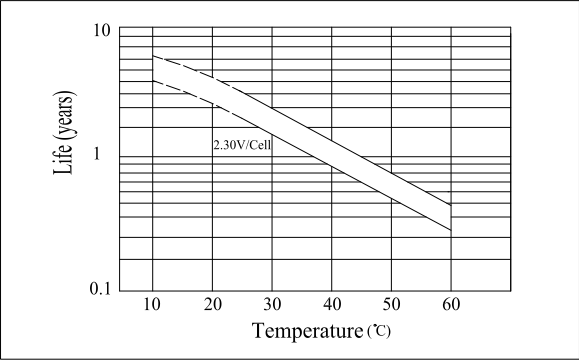
Note: The above characteristics data can be obtained within three charge/discharge cycles.

Construction

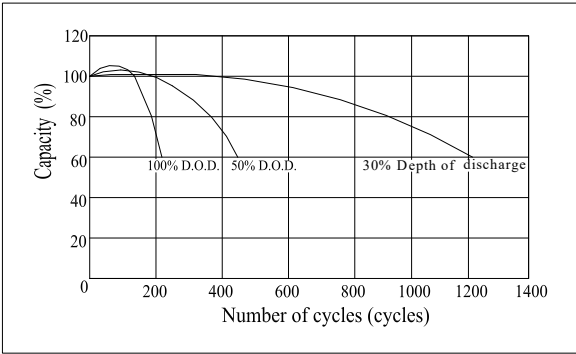
Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	Lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper

Discharge Characteristics(25°C)**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)****Charging Characteristics(25°C)****The Relationship for Charging Voltage and Temperature**

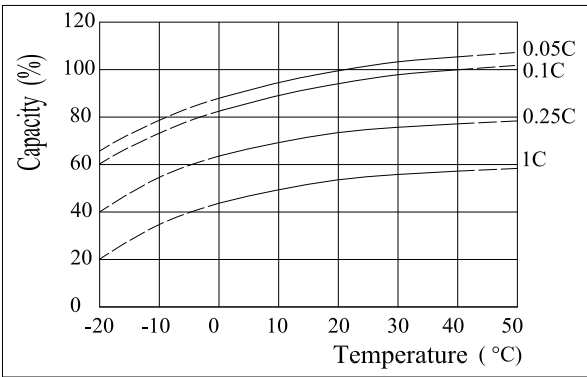
Floating Life on Temperature



Cycle Life on D.O.D(25°C)



Effect of Temperature on Capacity



Self-discharge Characteristics

