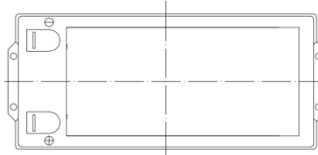
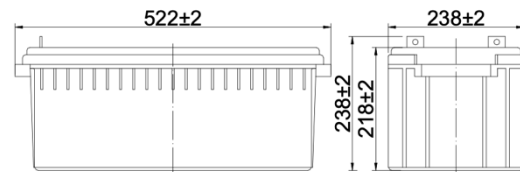


Electrical characteristics

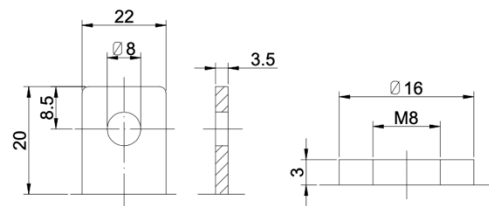
Nominal Voltage		12 V
Capacity (25°C)	20HR(10.5V)	200Ah
	5HR(10.2V)	166Ah
	1HR(9.6V)	120Ah
Dimension	Length	522±2mm
	Width	238±2mm
	Height	218±2mm
	Total Height	T5: 238±2mm T11: 221±2mm
Approx. Weight		61kg (134lbs)±4%
Terminal type		T5/T11
Internal resistance (Fully charged, 25°C)		Approx. 3.3mΩ
Capacity affected by temperature (10HR)	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~131°F)
	Charge	-10°C~50°C(14°F~131°F)
	Storage	-20°C~50°C(-4°F~131°F)
Float charging voltage(25°C)		13.50 to 13.80V Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)		14.10 to 14.40V Temperature compensation: -30mV/°C
Maximum charging current		50A
Terminal material		Copper
Maximum discharge current		1500A(5 sec.)
Designed floating life(20°C)		12-15 years



Dimensions



Terminal



Terminal T5

Terminal T11



Constant Current Discharge Characteristics (A, 25°C)

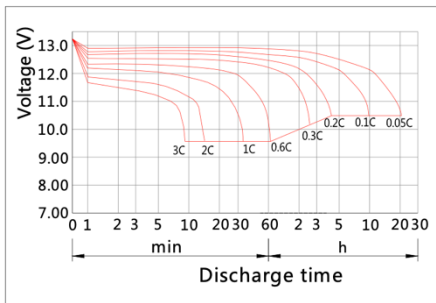
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	304	192	120	72.1	49.0	38.8	33.9	24.1	20.4	10.5
9.90V	297	188	118	71.6	48.7	38.5	33.7	23.9	20.3	10.5
10.2V	286	182	115	71.0	48.3	38.3	33.4	23.8	20.3	10.4
10.5V	276	178	113	69.9	48.0	38.0	33.2	23.6	20.1	10.4
10.8V	261	171	109	68.2	46.6	36.9	32.2	22.9	20.0	10.3

Constant Power Discharge Characteristics (Watt, 25°C)

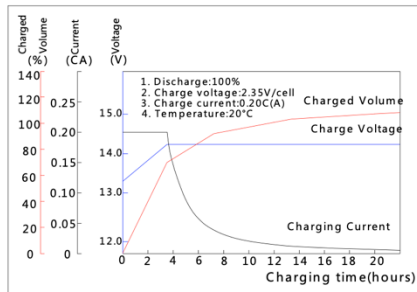
F.V/TIME	15min	30min	60min	2h	3h	4h	5h	8h	10h	20h
9.60V	3338	2154	1368	835	576	456	400	286	243	126
9.90V	3258	2111	1347	830	572	453	398	284	243	126
10.2V	3138	2047	1313	822	568	450	395	282	242	125
10.5V	3031	1997	1287	810	564	447	392	280	240	124
10.8V	2871	1924	1248	789	548	433	381	272	239	124

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

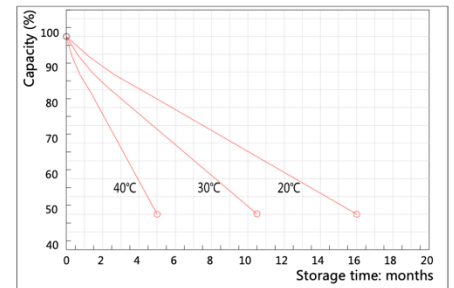
Discharge Characteristics(25°C)



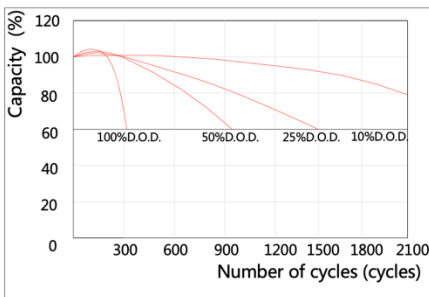
Charging Characteristics(25°C)



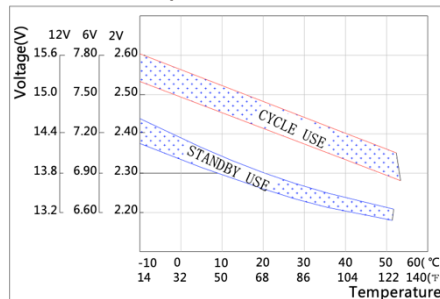
Self-discharge Characteristics



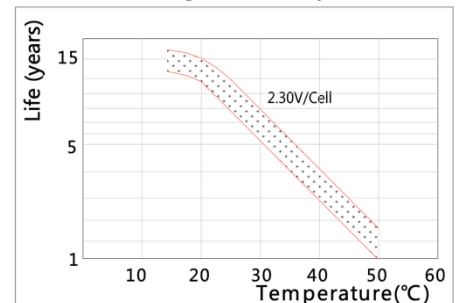
Cycle Life on D.O.D(25°C)



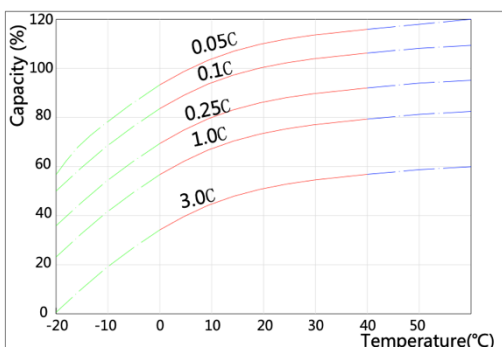
Relationship for Charging Voltage and Temperature



Floating Life on Temperature



Effect of Temperature on Capacity



The Relationship for Open Circuit Voltage and Residual Capacity (25°C)

