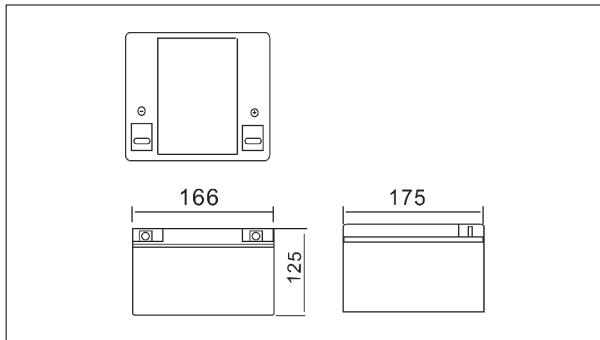


CHALLENGER

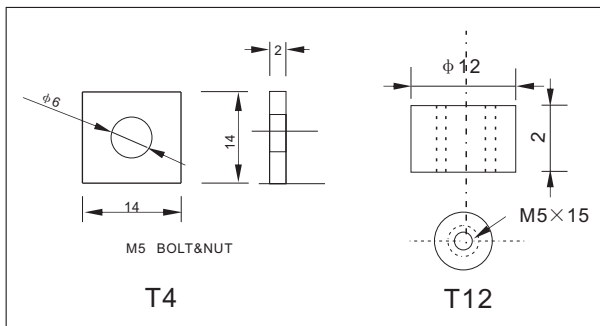
YOUR PARTNER IN A MORE SECURE FUTURE

AA66(12V24AH)SLA Battery

Outer dimensions (mm)



Terminal Type (mm)



Specifications

Nominal Voltage	12V	
Rated capacity (20 hour rate)	24Ah	
Dimensions	Length	175 ± 1.5mm(6.89inch)
	Width	166 ± 1mm(6.54inch)
	Height	125 ± 1mm(4.88inch)
	Total Height	125 ± 1mm(4.88inch)
Weight Approx	7.6kg(16.53lbs) ± 3%	

Characteristics

Capacity (25°C)	20HR(10.5V)	24.0Ah
	10HR(10.5V)	22.0Ah
	1HR(9.60V)	15.6Ah
Terminal type		T4/T12
Internal resistance (Fully charged, 25°C)		Approx. 11. m Ω
Capacity affected by temperature (20AH)	40°C	102%
	25°C	100%
	0°C	85%
	-15°C	65%
Self-discharge (25°C)	3month	Remaining Capacity:91%
	6month	Remaining Capacity:82%
	12month	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)	13.60 to 13.80V	Temperature compensation: -18mV/°C
Cyclic charging voltage(25°C)	14.50 to 15.00V	Temperature compensation: -30mV/°C
Maximum charging current	7.2A	
Maximum discharge current	360A(5 sec.)	
Desigend floating life(20°C)	5 years	

Constant Current(Amp) and Constant Power(Watt) Discharge Table at 25°C(77°F)

Time	5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	86.4	56.6	42.0	27.6	14.4	8.40	6.18	4.96	4.21	2.78	1.24
	W	897	608	450	297	156	92.2	68.8	55.8	47.9	31.9	14.4
10.20V	A	79.2	54.2	38.6	26.2	13.5	8.06	6.00	4.80	4.13	2.73	1.21
	W	851	606	432	294	153	92.9	69.5	55.8	48.1	31.9	14.2
10.50V	A	72.1	50.6	36.0	25.4	13.1	7.90	2.90	4.56	4.08	2.70	1.20
	W	792	576	411	292	151	91.6	68.7	53.4	47.8	31.8	14.2
10.80V	A	69.3	48.4	33.6	24.7	12.6	7.70	5.80	4.48	3.90	2.63	1.17
	W	777	55.8	387	286	147	90.2	58.4	52.9	46.1	31.2	13.9
11.10V	A	64.1	45.6	31.2	24.0	12.2	7.50	5.50	4.40	3.73	2.56	1.14
	W	727	528	363	281	143	88.7	65.3	52.4	44.5	30.7	13.8

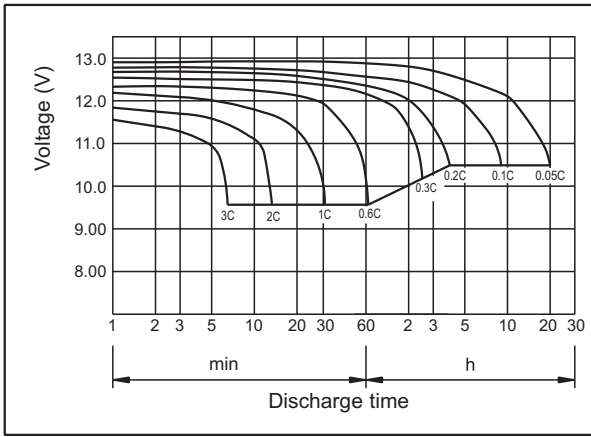
Note: The above characteristics data can be obtained within three charge or discharge cycles.

Construction

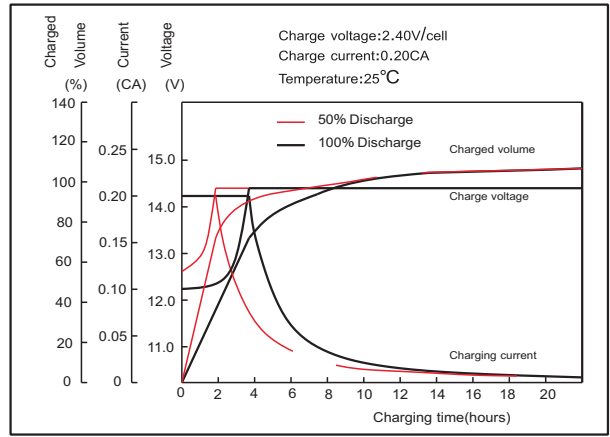
Component	Positive plate	Negative plate	Container	Cover	Separator	Electrolyte	Safety valve	Terminal
Raw material	lead dioxide	Lead	ABS	ABS	AGM	Sulfuric acid	Rubber	Copper / lead



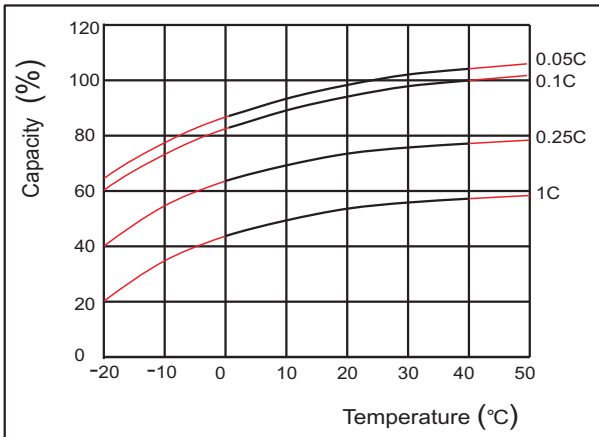
● Discharge characteristics(25°C)



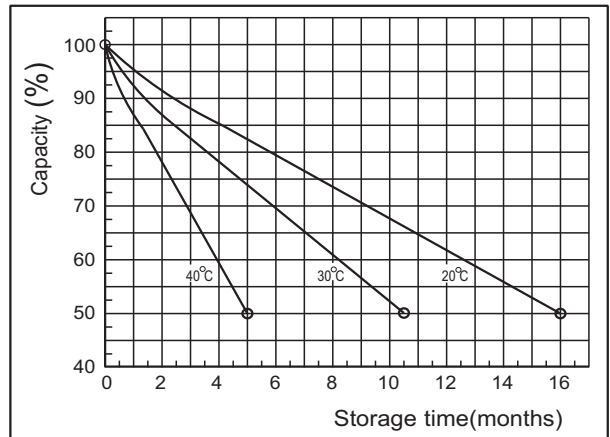
● Charging characteristics



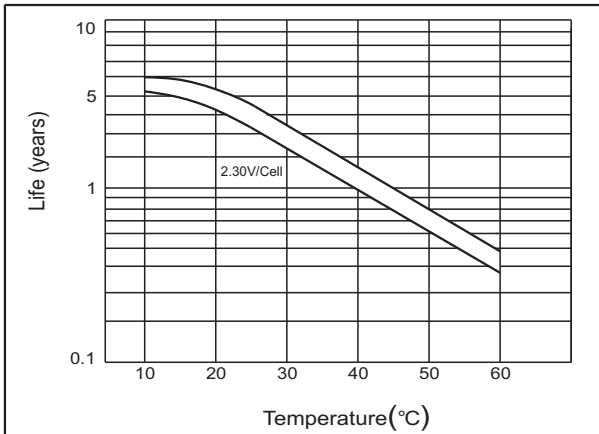
● Temperature effects on Capacity



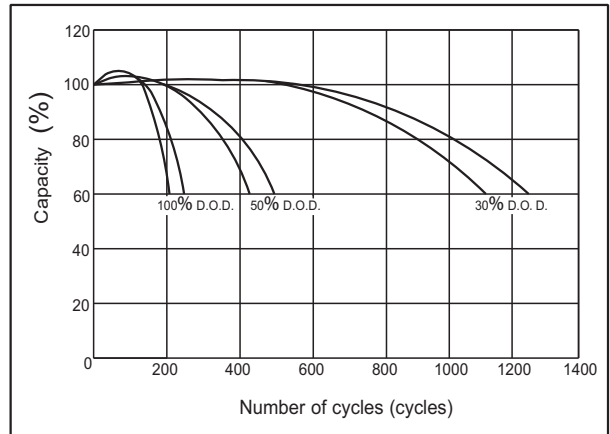
● Self-discharge characteristic



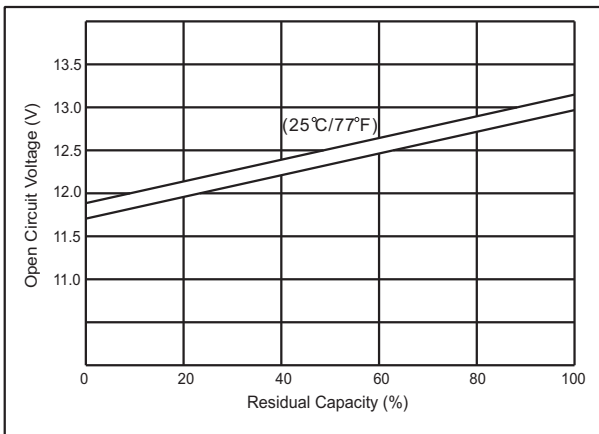
● Temperature effects on float life



● Cycle service life in relation to depth of discharge



● The relationship for OCV and Capacity (25°C)



● The relationship for Charging voltage and Temperature

