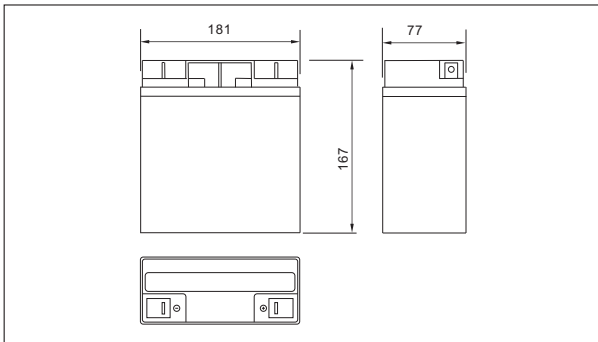


CHALLENGER

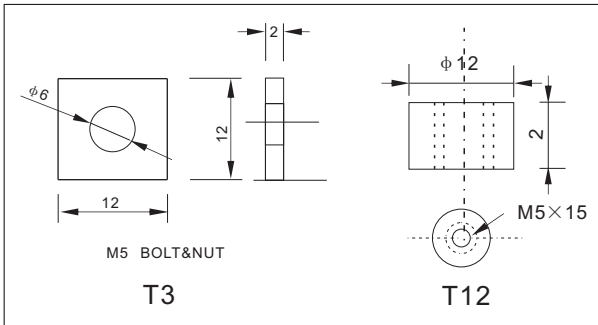
YOUR PARTNER IN A MORE SECURE FUTURE

AA65(12V17AH)SLA Battery

Outer dimensions (mm)



Terminal Type (mm)



Specifications

Nominal Voltage	12V	
Rated capacity (20 hour rate)	17Ah	
Dimensions	Length	181 ± 1.5mm (7.13inch)
	Width	77 ± 1mm (3.03inch)
	Height	167 ± 1mm (6.57inch)
	Total Height	167 ± 1mm (6.57inch)
Weight Approx	5.0kg (11.02lbs) ± 3%	



Characteristics

Capacity (25°C)	20HR(10.5V)	17.0Ah
	10HR(10.5V)	16.6Ah
	1HR(9.60V)	10.8Ah
Terminal type		T3/T12
Internal resistance (Fully charged, 25°C)		Approx. 16.5m 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	5.1A	
Maximum discharge current	255A(5 sec.)	
Desigend floating life(20°C)	5 years	

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

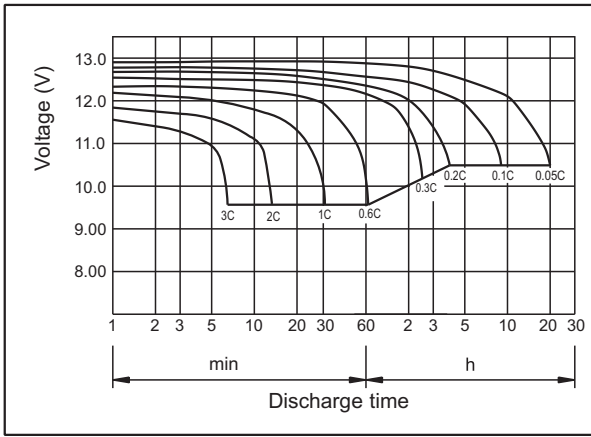
Time		5min	10min	15min	30min	1h	2h	3h	4h	5h	8h	10h	20h
9.60V	A	64.8	42.5	31.5	20.7	10.8	6.30	4.64	3.72	3.16	2.08	1.70	0.93
	W	673	456	338	223	117	69.2	51.6	41.9	35.9	23.9	19.7	10.8
10.20V	A	59.4	40.6	28.9	19.7	10.14	6.04	4.50	3.60	3.10	2.05	1.67	0.91
	W	638	454	324	221	115	69.7	52.1	41.9	36.1	24.0	19.6	10.6
10.50V	A	54.1	38.0	27.0	19.0	9.81	5.93	4.42	3.42	3.06	2.03	1.66	0.90
	W	594	432	308	219	114	68.7	51.6	40.0	35.9	23.8	19.6	10.6
10.80V	A	52.0	36.3	25.2	18.5	9.48	5.77	4.35	3.36	2.93	1.97	1.61	0.88
	W	583	419	290	215	110	67.6	51.3	39.7	34.6	23.4	19.2	10.45
11.10V	A	48.1	34.2	23.4	18.0	9.15	5.63	4.13	3.30	2.80	1.92	1.58	0.86
	W	545	396	272	211	108	66.5	49.	39.3	33.4	23.0	19.0	10.36

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

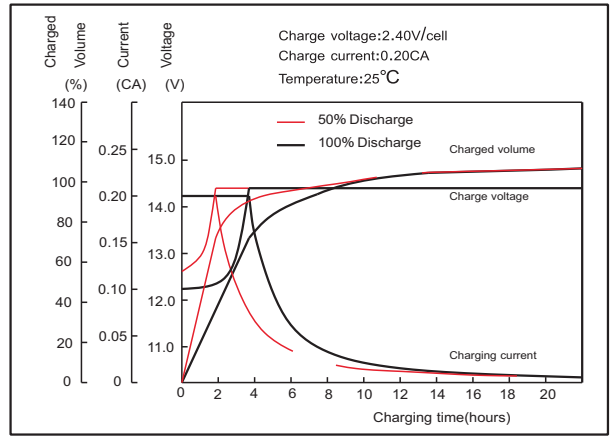
Construction

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

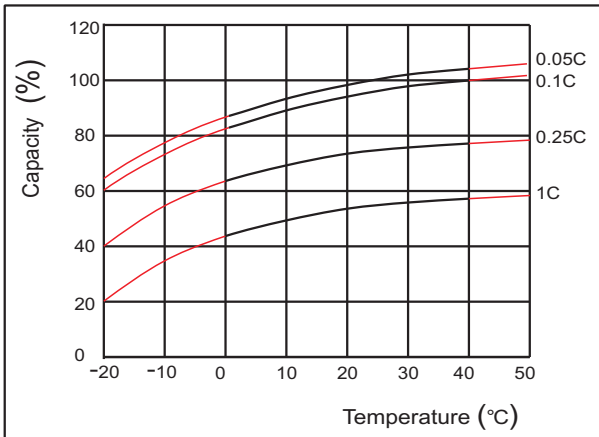
● Discharge characteristics(25°C)



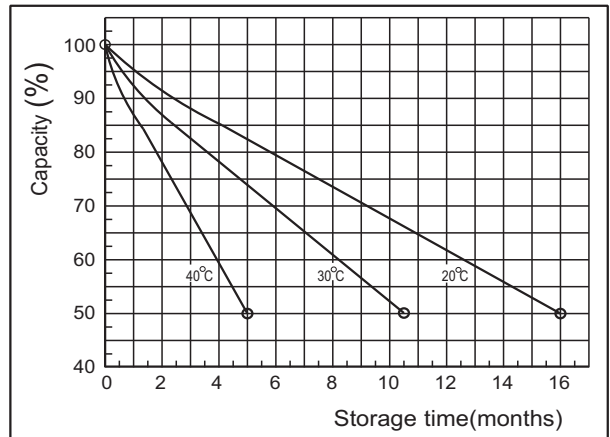
● Charging characteristics



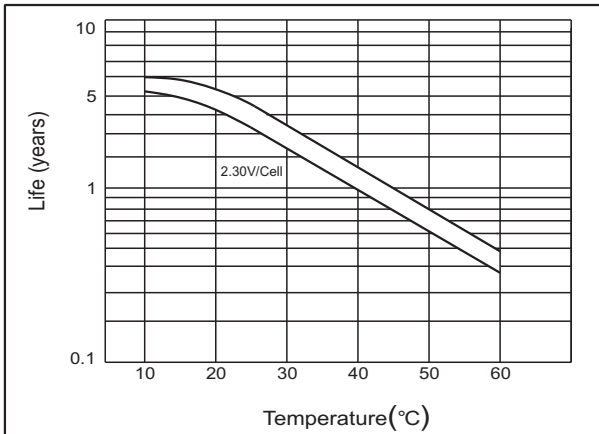
● Temperature effects on Capacity



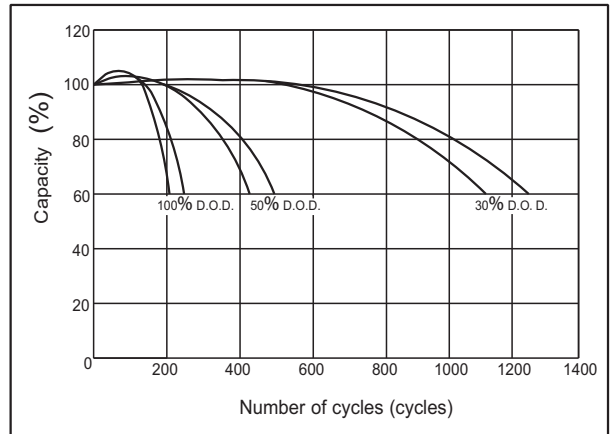
● Self-discharge characteristic



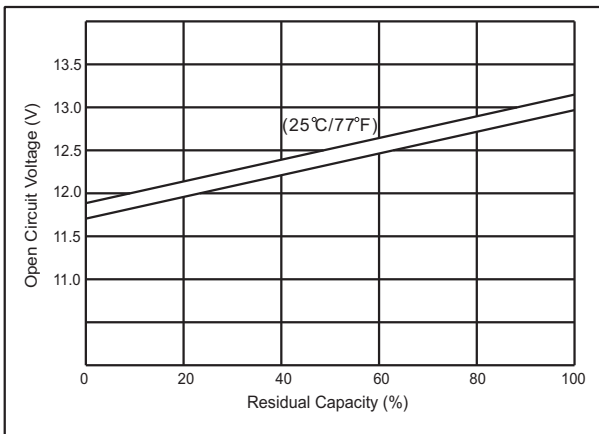
● Temperature effects on float life



● Cycle service life in relation to depth of discharge



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



● The relationship for Charging voltage and Temperature

