CT12-105X-CFR 12V 105Ah(10hr)

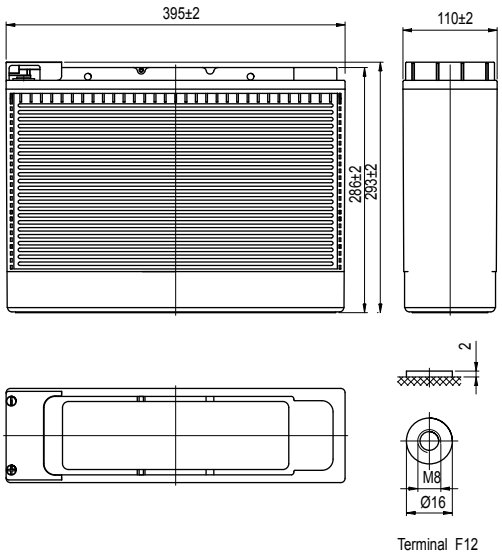
The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and plates and thus immobilized. Should the battery be accidentally overcharged producing hydrogen and oxygen, special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

Battery Construction

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

General Features

- Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67.
- UL-recognized component.
- Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density.
- Long service life, float or cyclic applications.
- Maintenance-free operation.
- Low self discharge.
- With VO Flame retardants cover and HB ABS container



Performance Characteristics

Battery model	CT12-105X-CFR			
Nominal voltage	12V			
Number of cell	6			
Capacity (25℃)	10hR(10.5A, 10.8V)	5hR(19A, 10.5V)		1hR(73.9A, 9.60V)
	105Ah	95Ah		73.9Ah
Dimensions Max.	Length	Width	Height	Total Height
	395±2 mm	110±2 mm	286±2 mm	293±2 mm
Approx. weight	35Kg (77.2 lbs)			
Internal resistance	Full charged at 20℃: 6mOhms			
Self discharge	3% of capacity declined per month at 20℃ (average)			
Operating temperature range	Discharge	Charge		Storage
	-20～60℃	-10～60℃		-20～60℃
Max. discharge current (20℃)	900A (5s)			
Short circuit current	2100A			

Discharge Constant Current (Amperes at 77°F25°C)

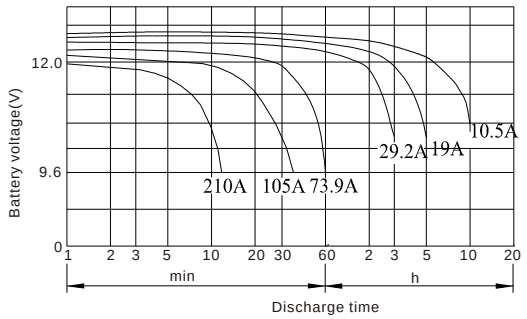
End Point Volts/Cell	10min	15min	30min	45min	1h	3h	5h	10h
1.60V	229	185	121	92.4	73.9	30.5	19.4	10.6
1.65V	212	174	117	89.7	72.4	30.1	19.3	10.6
1.70V	195	162	112	87.0	70.9	29.6	19.2	10.5
1.75V	178	151	108	84.2	69.4	29.2	19.0	10.5
1.80V	161	139	104	81.5	67.9	28.7	18.9	10.5

Discharge Constant Power (Watts at 77°F25°C)

End Point Volts/Cell	10min	15min	30min	45min	1h	2h	3h	5h
1.60V	399	335	234	180	145	81.6	59.8	38.9
1.65V	376	318	224	174	141	80.7	59.3	38.6
1.70V	354	301	215	168	137	79.7	58.7	38.3
1.75V	331	284	206	162	133	78.7	58.2	38.0
1.80V	309	267	196	156	130	77.8	57.7	37.7

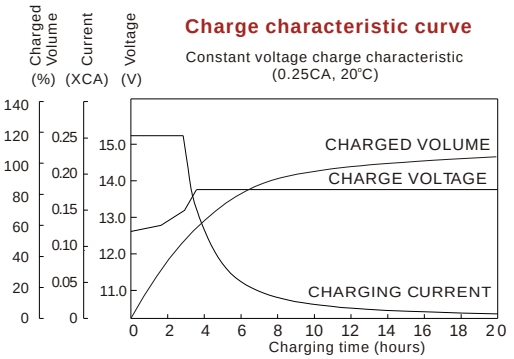
(Note)The above characteristics data are average values obtained within three charge/discharge cycles not the mimimum values.

Discharge characteristic (20°C)

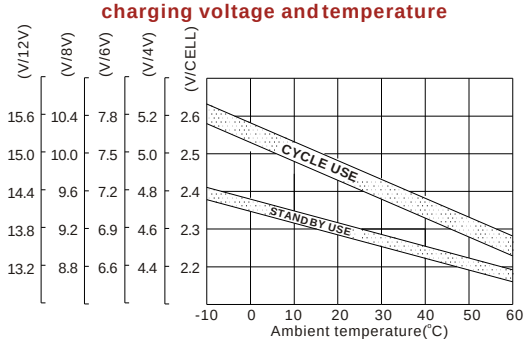


Charge characteristic curve

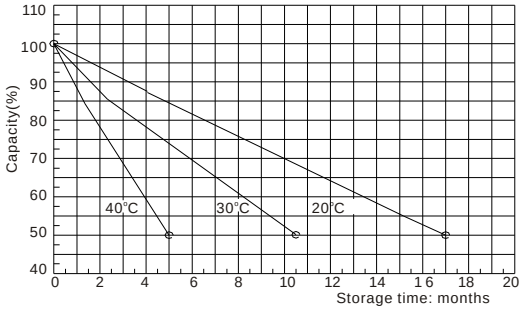
Constant voltage charge characteristic (0.25CA, 20°C)



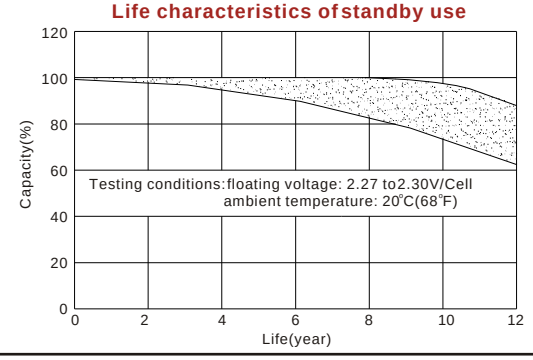
Relationship between charging voltage and temperature



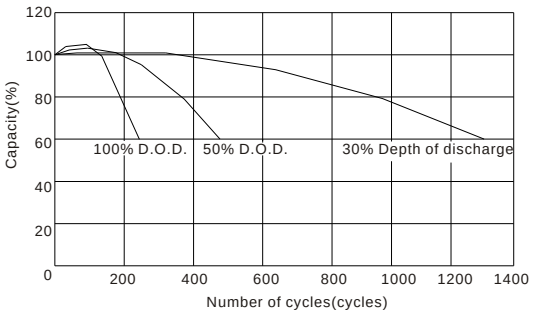
Self-discharge characteristic



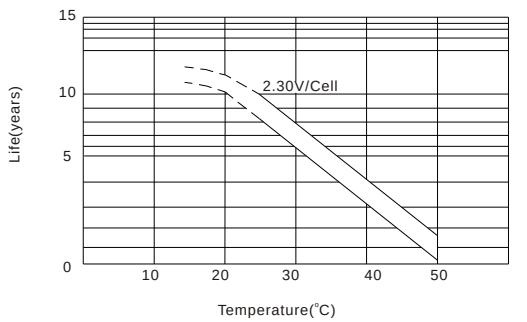
Life characteristics of standby use



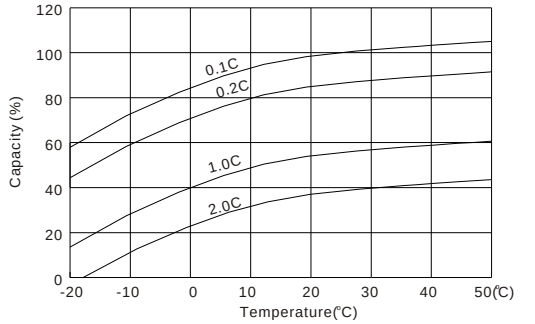
Cycle service life in relation to depth of discharge



Temperature effects on float life



Temperature effects on capacity



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