

DATASHEET

DCC 22-12

12V 22AH



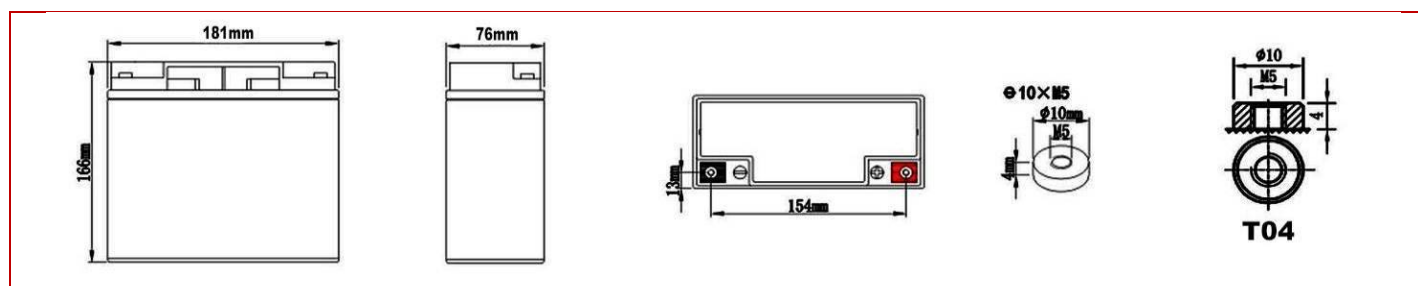
LEAD CARBON BATTERY

EUROBAT 2022 CLASSIFICATION: 15 Years – Very Long Life

Designed in accordance with IEC 60896-21/22

SPECIFICATIONS

Nominal Voltage	Nominal Capacity	Dimension ± 3mm				Weight	Short-Circuit Current	Internal Resistance	Standard Terminal	Container Material
		L	W	H	TH					
12V	24H	181mm	76mm	166mm	166mm	6,2kg	-	≈14.3 mΩ	M5	ABS UL94-V0



CONSTANT-VOLTAGE CHARGE

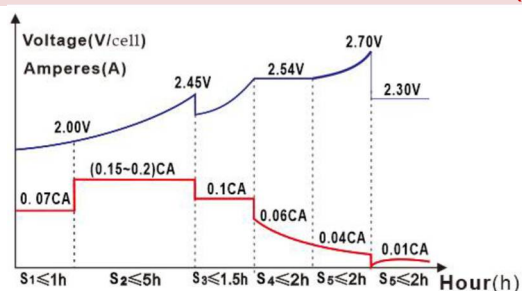
Rated Capacity	
20 hour rate (1.20A)	24.0AH
10 hour rate (2.40A)	22.20AH
5 hour rate (4.08A)	20.40AH
3 hour rate (24A)	10.80AH
1 hour rate (72.0A)	8.40AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

Cycle Application
1. Limit initial current less than 4.8A.
2. Charge until battery voltage (under charge) reaches 14.6V to 14.8V at 25°C(77°F).
3. Hold at 14.6V to 14.8V until current drop to under 0.144A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 4.8A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.
2. Temperature compensation coefficient of charging voltage is -18mV/°C.

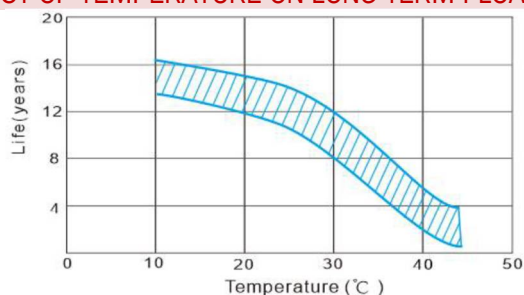
Wide Operating Temp. Range
-20°C ~ 50°C

NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation.

CHARGE CHARACTERISTIC CURVE FOR CYCLE USE(IIUU)



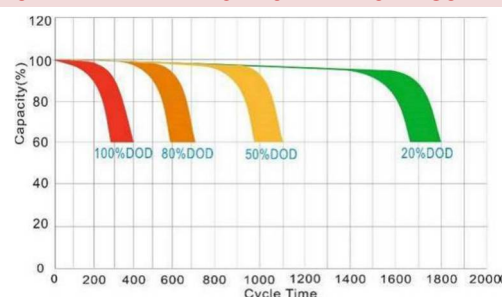
EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



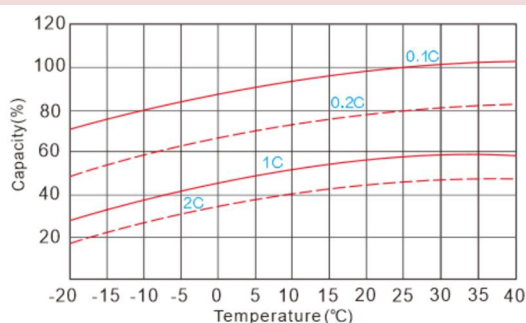
DISCHARGE CHARACTERISTIC (25°C/77°F)



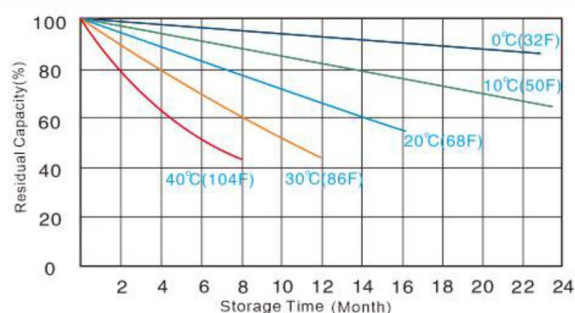
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



CAPACITY CURVE AT DIFFERENT TEMPERATURE



SELF DISCHARGE CHARACTERISTICS



End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20

Constant Current Discharge Data Sheet (@25°C) Unit: A

9.6V	51.8	40.3	21.7	16.4	13.4	10.5	8.26	6.16	4.19	2.72	2.30	1.25
9.9V	50.5	39.6	21.4	16.2	13.2	10.3	8.05	6.08	4.15	2.80	2.29	1.24
10.2V	49.3	38.9	21.0	15.8	13.0	10.1	7.82	6.00	4.12	2.75	2.27	1.22
10.5V	47.4	37.4	20.5	15.5	12.6	9.8	7.68	5.75	4.08	2.70	2.24	1.21
10.8V	45.1	35.8	20.0	15.1	12.2	9.5	7.52	5.51	4.03	2.62	2.22	1.20

Constant Power Discharge Data Sheet (@25°C) Unit: W

9.6V	552	444	263	185	151	120	94	67	47.2	30.4	25.1	13.6
9.9V	539	433	251	180	149	119	91	66	46.2	29.9	24.8	13.4
10.2V	526	421	238	174	144	115	89	65	45.1	29.2	24.6	13.3
10.5V	512	408	234	172	143	114	85	64	44.4	28.8	24.4	13.2
10.8V	499	395	227	167	138	112	83	61	43.9	28.7	24.1	13.1