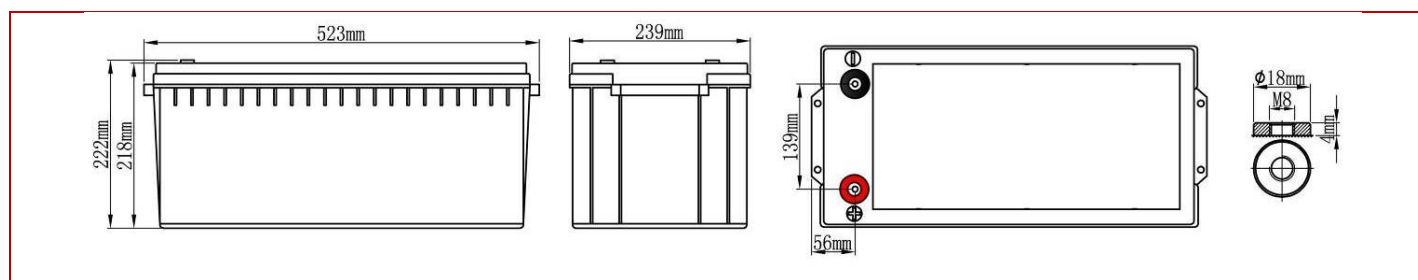


DATASHEET
DCC 220-12
12V 220AH

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	224AH	523mm	239mm	218mm	222mm	62.8kg	-	≈3.1 mΩ	M8	ABS UL94-V0


CONSTANT-VOLTAGE CHARGE

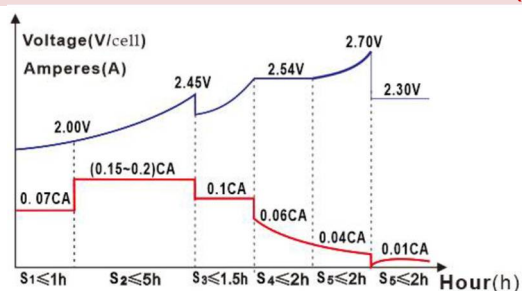
Rated Capacity	
20 hour rate (10.5A)	224AH
10 hour rate (21.0A)	210.0AH
5 hour rate (35.7A)	179.0AH
3 hour rate (52.5A)	159.0AH
1 hour rate (115.5A)	118.0AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

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

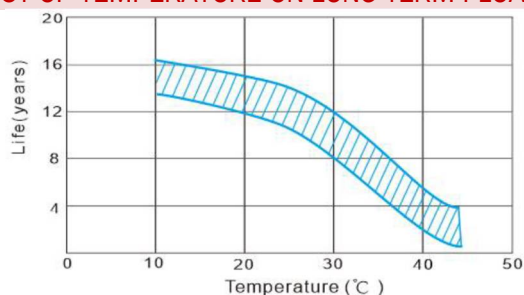
Cycle Application
1. Limit initial current less than 42A.
2. Charge until battery voltage (under charge) reaches 14.6V to 14.8V at 25°C(77°F).
3. Hold at 14.6V to 14.8V until current drop to under 1.26A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 42A 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.

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)



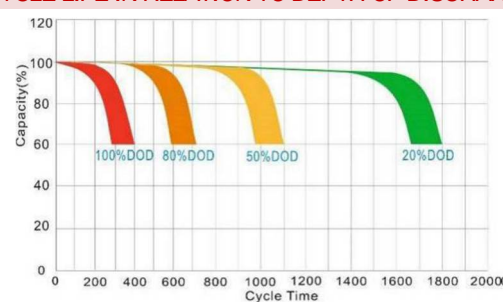
EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



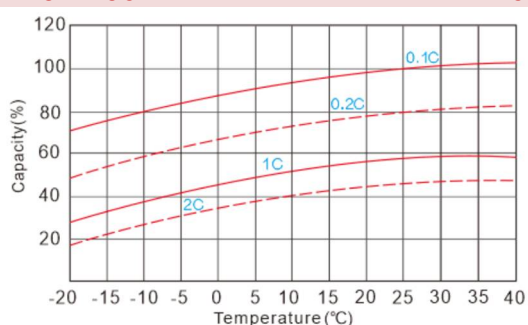
DISCHARGE CHARACTERISTIC (25°C/77°F)



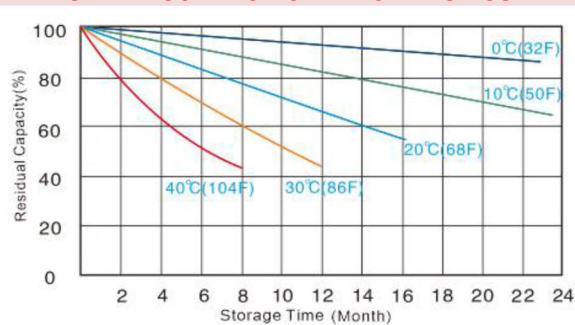
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



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

End Voltage (V)	381	310	200	159	118	92	78	55	37.8	25.5	21.5	11.5
9.6V	364	296	192	153	116	91	77	54	37.0	25.0	21.4	11.4
9.9V	346	282	181	148	114	90	76	53	36.2	24.5	21.3	11.3
10.2V	328	267	172	141	112	89	74	52	35.8	23.8	21.2	11.2
10.5V	316	257	165	134	110	88	73	51	34.4	23.4	21.0	11.1
10.8V												

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

End Voltage (V)	4356	3542	2460	1900	1427	1106	854	606	407	299	239	128
9.6V	4148	3373	2344	1824	1383	1085	842	599	401	295	237	127
9.9V	3950	3212	2231	1738	1368	1062	830	588	394	290	235	126
10.2V	3763	3057	2125	1655	1336	1036	810	577	385	287	232	123
10.5V	3584	2913	2023	1577	1303	1009	791	564	375	281	229	121
10.8V												