



DATASHEET

DCC 120-12

12V 120AH

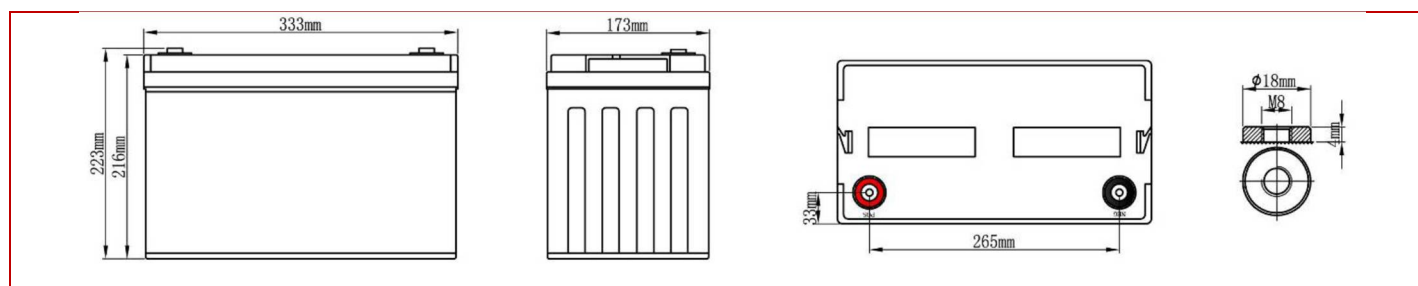
LEAD CARBON BATTERY

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	120AH	333mm	173mm	216mm	223mm	33,5kg	-	≈4.0 mΩ	M8	ABS UL94-V0

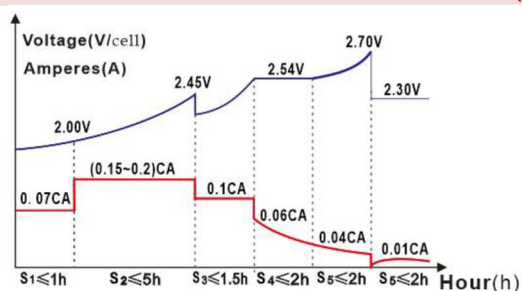
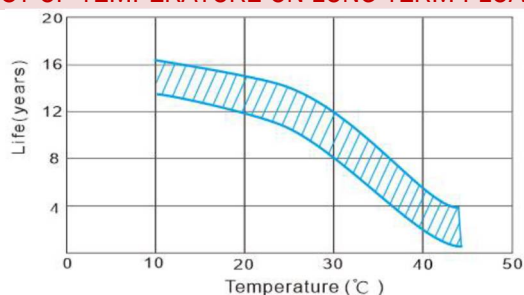
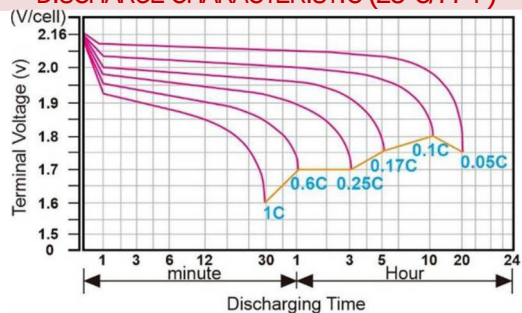
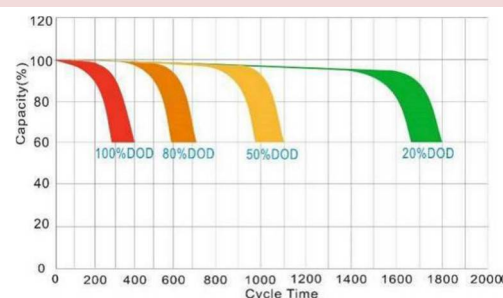
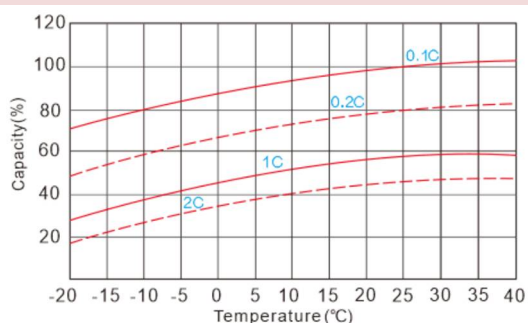
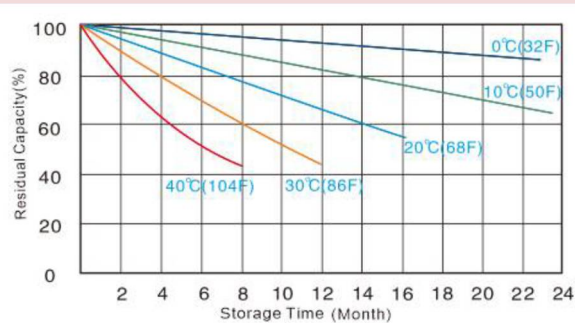


CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (5.75A)	120.0AH
10 hour rate (11.5A)	115.0AH
5 hour rate (19.6A)	98.0AH
3 hour rate (28.75A)	86.4AH
1 hour rate (63.25A)	63.3AH
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 23A.
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 0.69A 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 23A 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

9.6V	195	158	89	80	63.3	50.1	41.7	29.5	20.7	14.1	11.9	6.16
9.9V	192	156	88	78	62.8	49.8	41.3	29.0	20.3	13.9	11.8	6.11
10.2V	188	153	85	77	62.2	49.3	41.1	28.8	19.8	13.7	11.7	6.05
10.5V	184	150	84	75	61.3	48.6	40.7	28.1	19.6	13.4	11.6	5.98
10.8V	182	148	82	73	60.2	47.8	40.1	27.4	18.9	13.2	11.5	5.92

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

9.6V	2143	1813	1124	908	725	581	476	337	229	158	135	69
9.9V	2122	1795	1113	898	718	573	469	334	227	155	134	68
10.2V	2103	1778	1103	888	708	565	464	329	224	150	132	67
10.5V	2060	1742	1080	872	693	553	452	324	218	149	128	66
10.8V	2021	1708	1058	854	676	542	441	314	212	145	126	65