



DATASHEET

DCC 85-12

12V 85AH

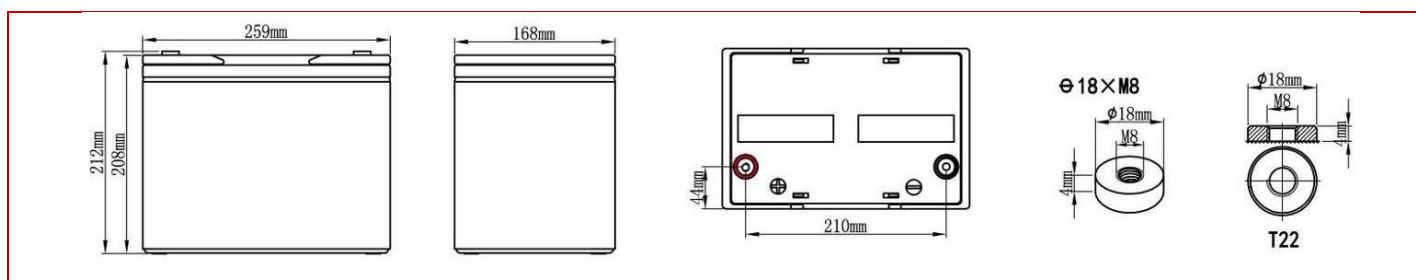
LEAD CARBON BATTERY

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	85AH	259mm	168mm	208mm	212mm	24.3kg	-	≈5.8 mΩ	M8	ABS UL94-V0



CONSTANT-VOLTAGE CHARGE

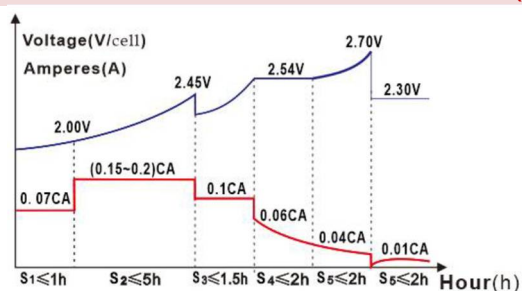
Rated Capacity	
20 hour rate (4.25A)	88.2AH
10 hour rate (8.5A)	85.0AH
5 hour rate (14.45A)	72.5AH
3 hour rate (21.25A)	63.9AH
1 hour rate (46.75A)	47.4AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

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

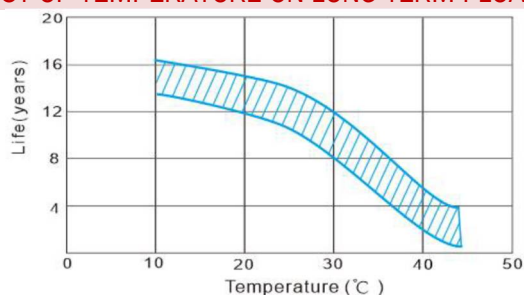
Cycle Application
1. Limit initial current less than 17A.
2. Charge until battery voltage (under charge) reaches 14.6V to 14.8V at 25°C(77°F).
3. Hold at 14.6V to 14.8V until current drop to under 0.51A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 17A 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)



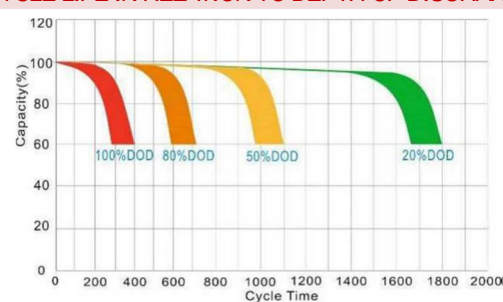
EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



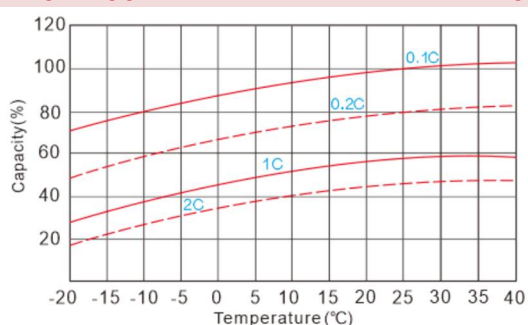
DISCHARGE CHARACTERISTIC (25°C/77°F)



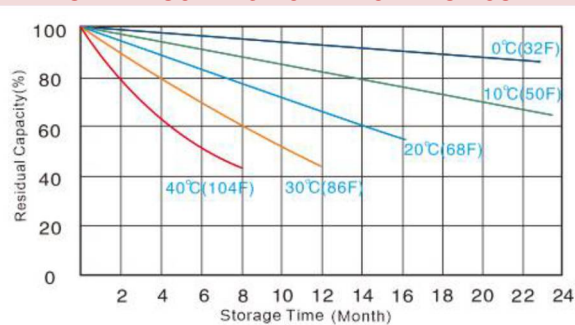
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



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	205	167	91	81.3	47.4	37.5	31.4	22.0	15.4	10.5	8.73	4.58
9.9V	193	157	88	76.5	47.0	37.2	31.2	21.5	15.2	10.3	8.69	4.53
10.2V	186	151	85	74.9	46.7	36.8	30.9	21.3	15.0	10.1	8.66	4.50
10.5V	175	142	80	71.0	45.8	36.0	30.4	20.6	14.5	9.9	8.58	4.45
10.8V	169	137	77	69.0	44.9	35.5	29.8	20.2	13.9	9.7	8.50	4.41

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

9.6V	2326	1931	1197	911	511	416	342	254	167	126	100	53.4
9.9V	2214	1838	1140	873	508	411	341	253	164	125	99	53.0
10.2V	2110	1751	1086	833	504	408	339	252	163	124	97	52.6
10.5V	2010	1668	1034	791	499	405	334	247	161	122	96	52.0
10.8V	1912	1587	984	747	493	399	330	244	159	120	95	51.3