



DATASHEET

DCC 60-12

12V 60AH

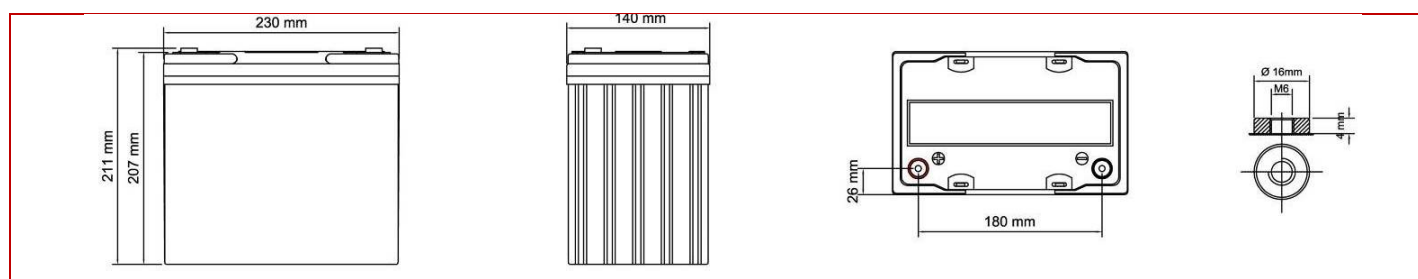
LEAD CARBON BATTERY

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	60AH	230mm	140mm	207mm	211mm	17.6kg	-	≈6.6 mΩ	M6	ABS UL94-V0



CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (3.0A)	61.8AH
10 hour rate (6.0A)	60.3AH
5 hour rate (10.2A)	51.0AH
3 hour rate (15.0A)	45.3AH
1 hour rate (33.0A)	33.4AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°F)	100%
0°C (32°F)	86%

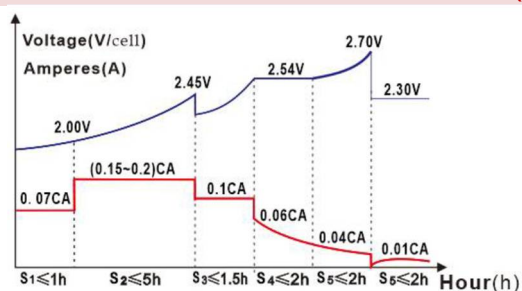
Cycle Application
1. Limit initial current less than 12A.
2. Charge until battery voltage (under charge) reaches 14.6V to 14.8V at 25°C(77°F).
3. Hold at 14.6V to 14.8V until current drop to under 0.36A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 12A 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

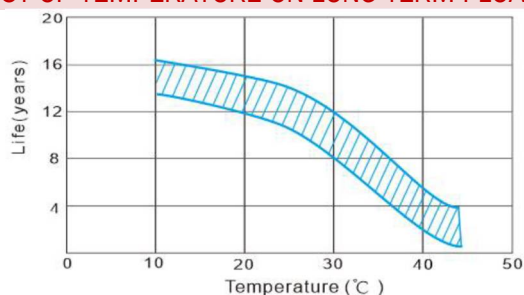
-20°C ~ 50°C

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)



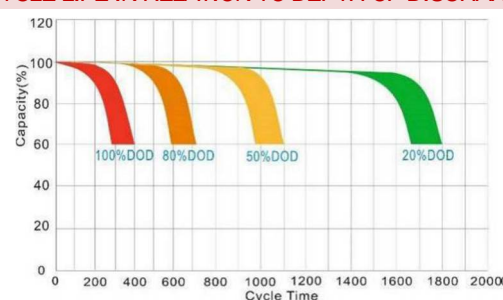
EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



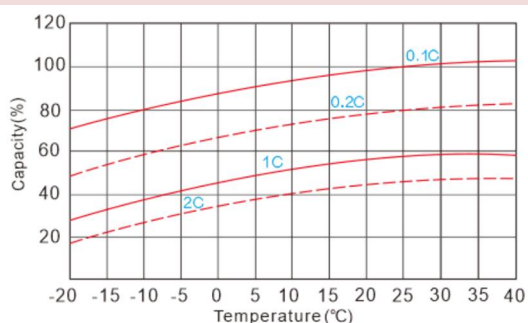
DISCHARGE CHARACTERISTIC (25°C/77°F)



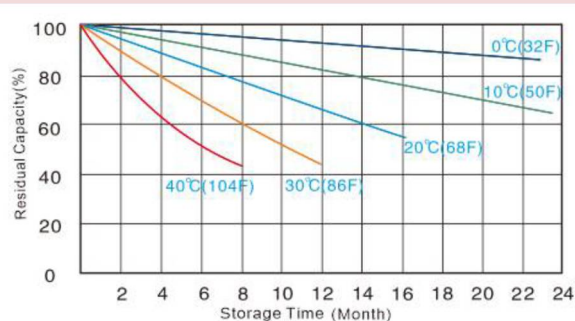
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



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	125	102	54.3	46.9	33.4	26.5	22.4	15.6	10.8	7.23	6.28	3.21
9.9V	123	100	53.1	46.1	32.7	26.0	21.8	15.4	10.6	7.15	6.21	3.19
10.2V	121	98	51.9	45.3	32.1	25.4	21.3	15.1	10.5	7.09	6.15	3.16
10.5V	117	95	49.6	43.3	30.8	24.4	20.4	14.7	10.2	6.95	6.09	3.13
10.8V	113	92	47.5	41.2	29.5	23.5	19.5	14.4	9.9	6.80	6.03	3.09

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

9.6V	1463	1212	640	519	369	293	244	178	117	85	67.6	35.3
9.9V	1415	1172	627	513	361	287	239	175	115	83	67.4	35.1
10.2V	1366	1132	616	495	353	280	233	171	113	81	67.1	34.9
10.5V	1303	1080	592	477	338	271	225	166	110	79	66.5	34.6
10.8V	1240	1028	567	458	325	260	216	159	107	76	65.9	34.3