



DATASHEET DCC 105-12

12V 105AH

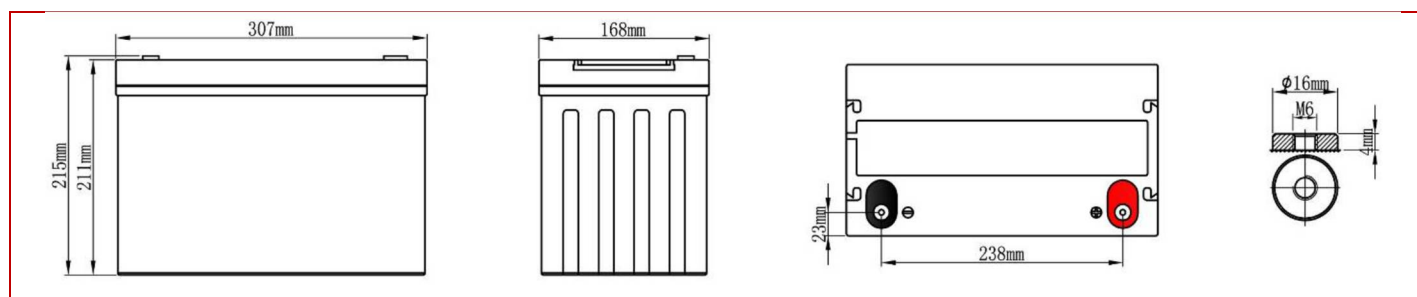
LEAD CARBON BATTERY

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	105AH	307mm	168mm	211mm	213mm	29,2kg	-	≈4.3 mΩ	M6	ABS UL94-V0

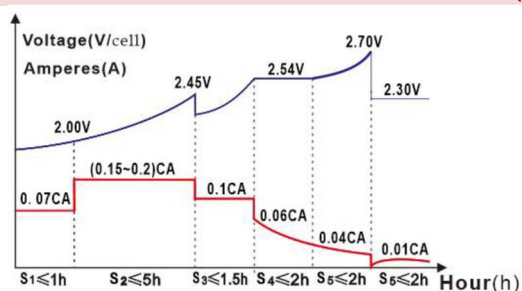
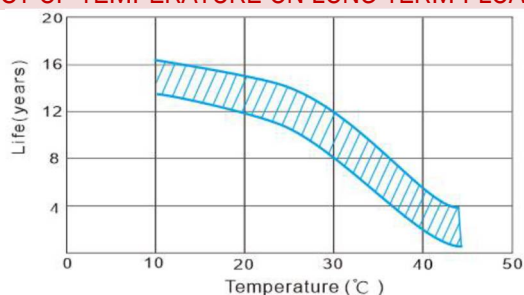


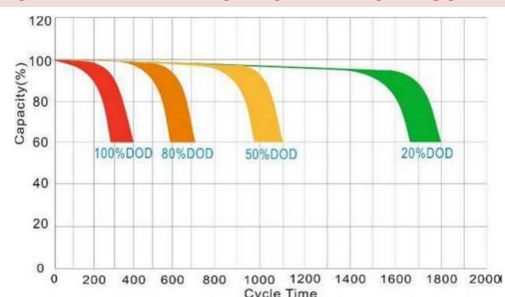
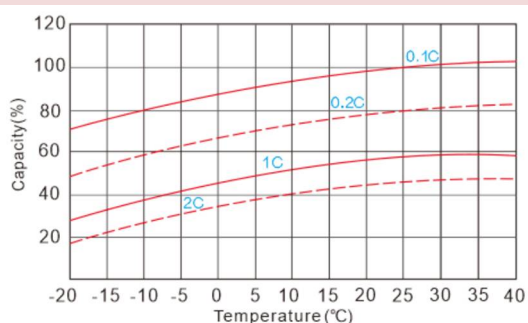
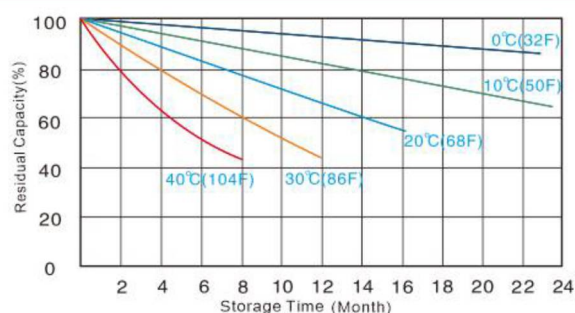
CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (5.0A)	105.0AH
10 hour rate (10.0A)	100.0AH
5 hour rate (17.0A)	85.5AH
3 hour rate (25.0A)	75.3AH
1 hour rate (55.0A)	55.0AH
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 20A.
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 0.6A 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 20A 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	214	174	98	85	55.0	43.6	36.2	25.7	18.1	12.3	10.4	5.36
9.9V	211	171	96	84	54.6	43.3	35.9	25.3	17.7	12.1	10.3	5.31
10.2V	207	168	94	83	54.2	42.9	35.7	25.1	17.3	11.9	10.2	5.26
10.5V	201	163	91	82	53.3	42.3	35.3	24.5	17.1	11.6	10.1	5.20
10.8V	195	158	89	80	52.4	41.6	34.8	23.9	16.5	11.4	10.0	5.15

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

9.6V	2317	1921	1091	941	697	551	414	311	201	138	118	61
9.9V	2283	1892	1079	929	688	545	408	307	199	135	117	59
10.2V	2248	1863	1067	917	680	539	404	303	196	131	115	58
10.5V	2193	1818	1041	894	663	525	393	296	191	129	112	57
10.8V	2138	1772	1016	871	645	511	383	286	186	126	110	56