



DATASHEET

DCC 35-12

12V 35AH

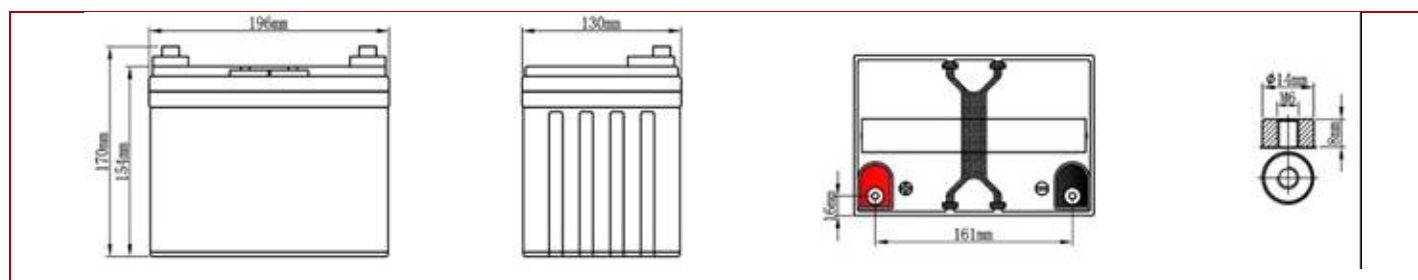
LEAD CARBON BATTERY

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	35AH	196mm	130mm	154mm	170mm	10.8kg	-	≈8.1 mΩ	M6	ABS UL94-V0



CONSTANT-VOLTAGE CHARGE

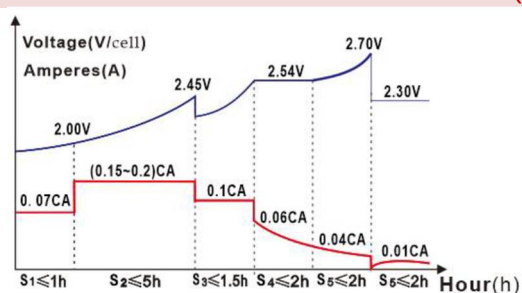
Rated Capacity	
20 hour rate (1.75A)	35.8AH
10 hour rate (3.50A)	35.0AH
5 hour rate (5.95A)	29.8AH
3 hour rate (35A)	15.8AH
1 hour rate (105A)	12.3AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

Cycle Application
1. Limit initial current less than 7A.
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 0.21A 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 7A 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.

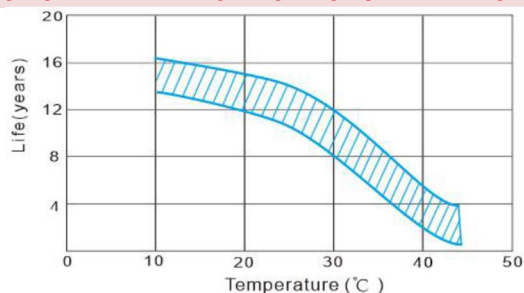
Wide Operating Temp. Range
-20°C ~ 50°C

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)



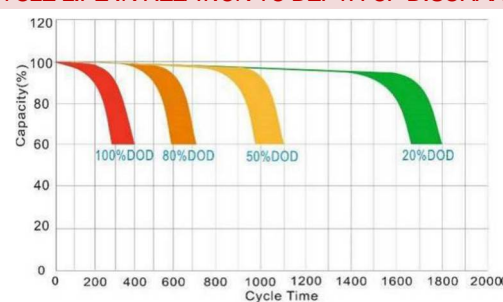
EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



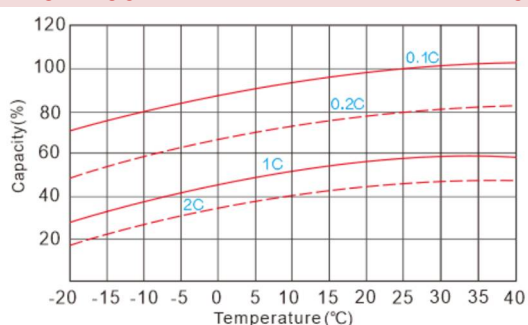
DISCHARGE CHARACTERISTIC (25°C/77°F)



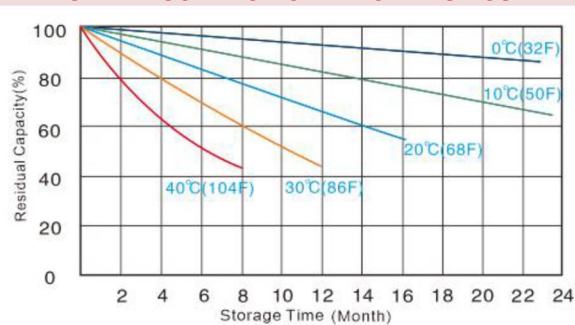
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



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	93	73	37.0	26.1	21.9	17.3	12.8	9.71	6.31	4.16	3.61	1.87
9.9V	89	69	35.1	25.1	21.4	16.9	12.5	9.47	6.16	4.08	3.57	1.85
10.2V	84	66	33.6	24.4	20.9	16.5	12.2	9.25	6.00	4.00	3.54	1.83
10.5V	83	65	33.3	24.3	20.8	16.2	11.8	8.97	5.95	3.96	3.51	1.81
10.8V	82	64	33.1	24.2	20.7	16.0	11.4	8.67	5.77	3.92	3.50	1.79

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

9.6V	1041	843	477	337	250	193	145	104	68	47.7	37.8	20.4
9.9V	992	802	453	326	246	188	142	101	66	46.7	37.4	20.2
10.2V	945	764	433	315	240	184	139	99	65	45.7	37.0	20.0
10.5V	914	743	423	308	236	180	137	97	64	45.3	36.5	19.6
10.8V	880	718	411	299	231	178	135	94	63	44.9	35.9	19.4