



DATASHEET

DCC 28-12

12V 28AH

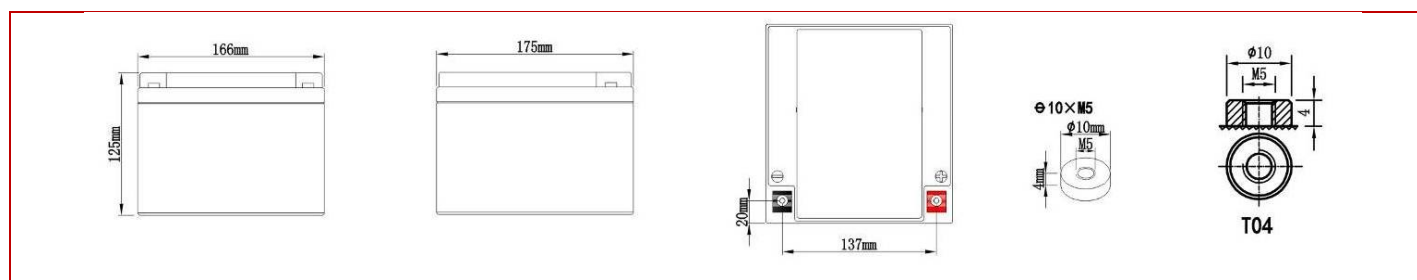
LEAD CARBON BATTERY

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	28AH	166mm	175mm	125mm	125mm	8kg	-	≈10.2 mΩ	M5	ABS UL94-V0



CONSTANT-VOLTAGE CHARGE

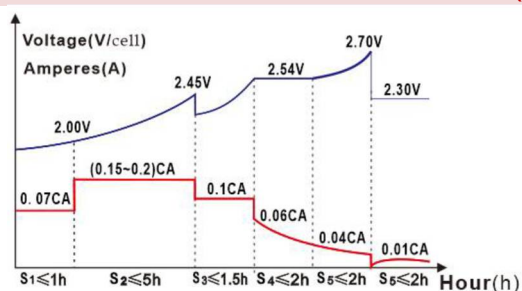
Rated Capacity	
20 hour rate (1.40A)	28.20AH
10 hour rate (2.80A)	25.80AH
5 hour rate (4.76A)	23.80AH
3 hour rate (28A)	12.60AH
1 hour rate (84A)	9.80AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

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

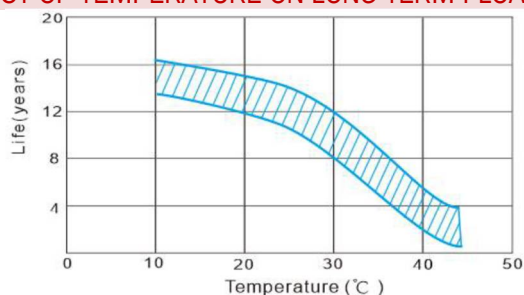
Cycle Application
1. Limit initial current less than 5.6A.
2. Charge until battery voltage (under charge) reaches 14.6V to 14.8V at 25°C(77°F).
3. Hold at 14.6V to 14.8V until current drop to under 0.168A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -30mV/°C.
Standby Service
1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 5.6A 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)



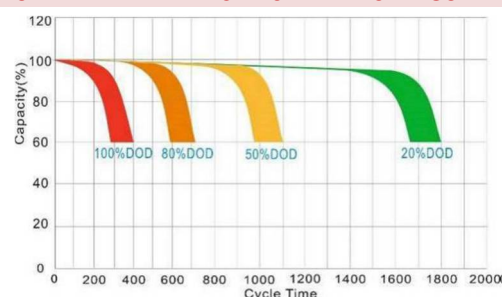
EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



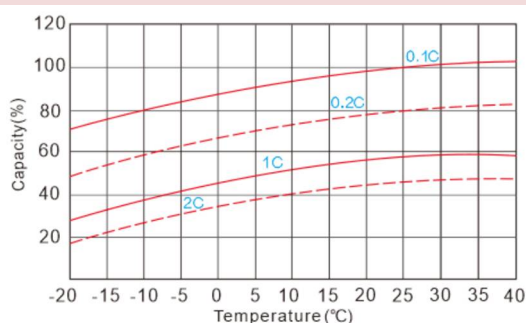
DISCHARGE CHARACTERISTIC (25°C/77°F)



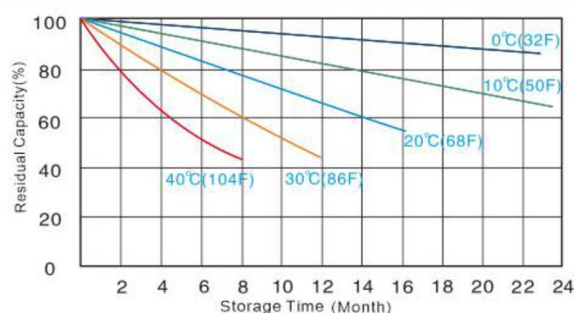
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



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

End Voltage (V)	66	54.4	27.8	20.2	15.6	12.3	9.85	7.46	4.96	3.33	2.68	1.47
9.6V	66	54.4	27.8	20.2	15.6	12.3	9.85	7.46	4.96	3.33	2.68	1.47
9.9V	65	53.8	27.5	20.0	15.3	12.0	9.73	7.36	4.89	3.29	2.66	1.46
10.2V	64	53.2	27.3	19.8	15.0	11.8	9.59	7.26	4.85	3.24	2.64	1.45
10.5V	63	52.1	26.7	19.3	14.6	11.4	9.20	6.97	4.76	3.19	2.61	1.43
10.8V	62	51.0	26.2	18.9	14.2	11.1	8.80	6.66	4.65	3.14	2.58	1.41

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

End Voltage (V)	746	609	348	247	174	130	106	80	55.0	36.0	29.6	16.1
9.6V	746	609	348	247	174	130	106	80	55.0	36.0	29.6	16.1
9.9V	731	597	337	242	171	128	105	78	54.7	35.8	29.5	16.0
10.2V	718	586	326	234	168	127	103	77	54.3	35.5	29.2	15.8
10.5V	699	571	308	221	162	125	101	75	52.7	35.1	28.6	15.6
10.8V	680	555	296	212	156	122	98	73	51.0	34.7	28.0	15.3