

DATASHEET

DCC 320-6

6V 320AH



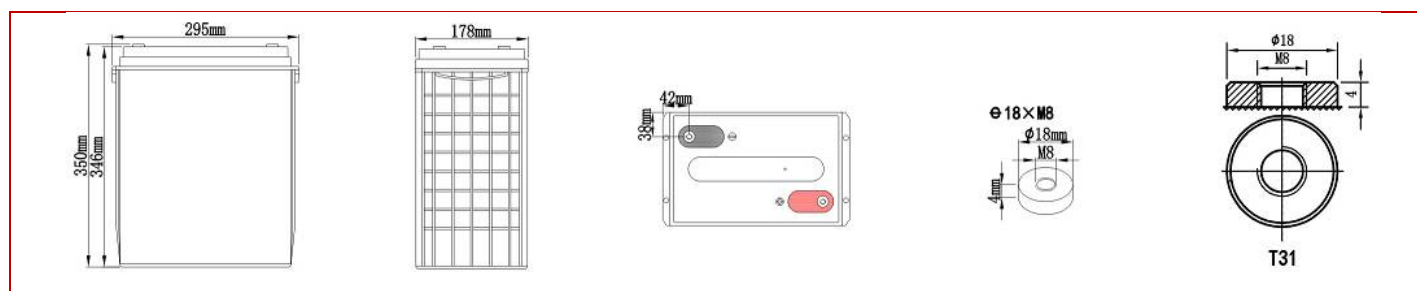
LEAD CARBON BATTERY

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					
6V	320AH	295mm	178mm	346mm	350mm	46.5kg	-	≈1.49 mΩ	M8	ABS UL94-V0



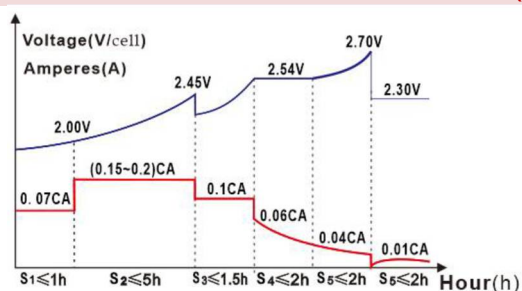
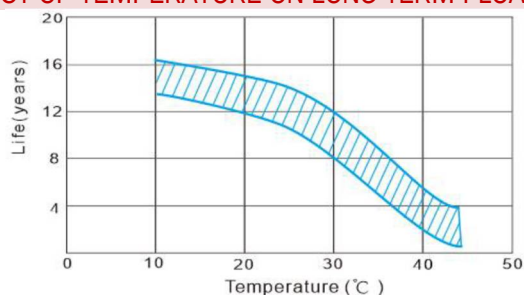
CONSTANT-VOLTAGE CHARGE

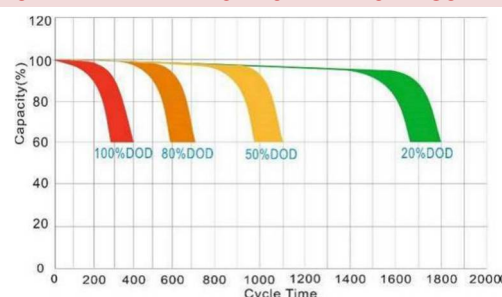
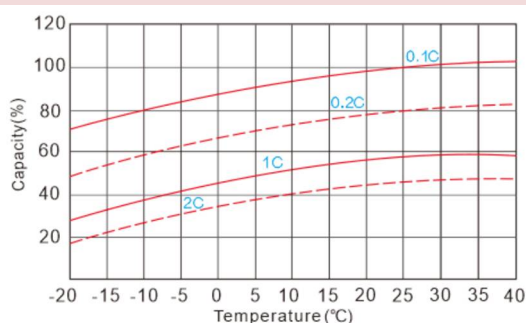
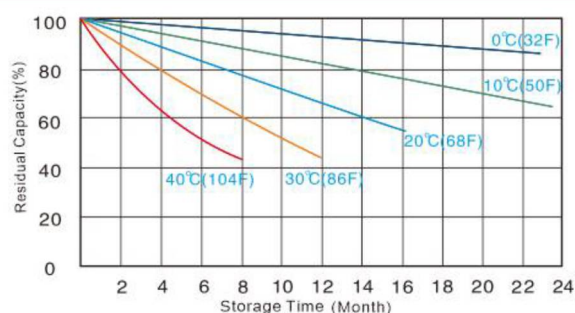
Rated Capacity	
20 hour rate (15.0A)	320.0AH
10 hour rate (30.0A)	300.0AH
5 hour rate (51.0A)	255.0AH
3 hour rate (75.0A)	225.0AH
1 hour rate (165.0A)	169.0AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

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

Cycle Application
1. Limit initial current less than 60A.
2. Charge until battery voltage (under charge) reaches 7.30V to 7.40V at 25°C(77°F).
3. Hold at 14.6V to 14.8V until current drop to under 1.8A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -15mV/°C.
Standby Service
1. Hold battery across constant voltage source of 6.80 to 6.90 volts with current limit 60A 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 -9mV/°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

4.80V	621	504	283	219	169	135	114	77	54	36.2	30.8	15.7
4.95V	598	486	272	210	167	131	111	76	53	35.6	30.6	15.6
5.10V	572	465	259	201	164	128	109	75	52	35.1	30.4	15.5
5.25V	538	437	246	191	159	124	105	71	51	34.3	30.2	15.4
5.40V	508	413	231	178	154	120	101	69	49	33.6	30.0	15.3

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

4.80V	3332	2709	1635	1213	936	765	596	418	306	218	176	95
4.95V	3203	2604	1575	1164	904	752	587	414	302	214	174	93
5.10V	3111	2529	1515	1116	896	733	578	407	294	210	173	91
5.25V	2940	2391	1431	1058	879	714	561	398	291	206	171	89
5.40V	2775	2256	1356	1001	855	699	555	390	279	203	169	87