

DATASHEET

DCC 420-6

6 V 420 AH



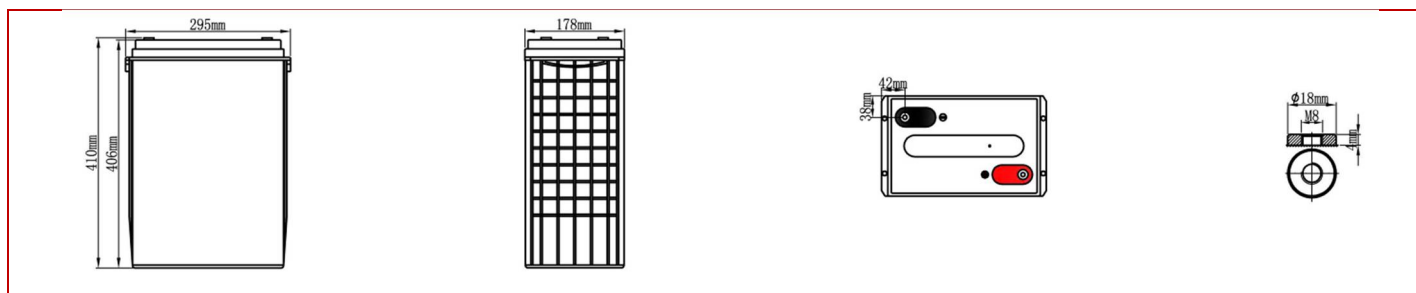
LEAD CARBON BATTERY

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	420AH	295mm	178mm	406mm	410mm	58.2kg	-	≈1.43 mΩ	M8	ABS UL94-V0

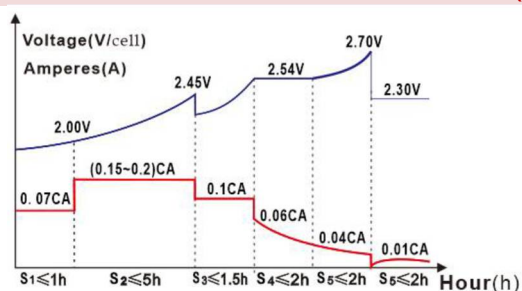
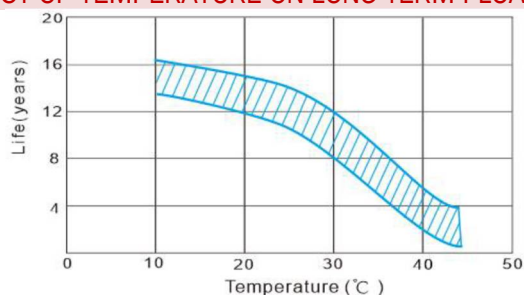


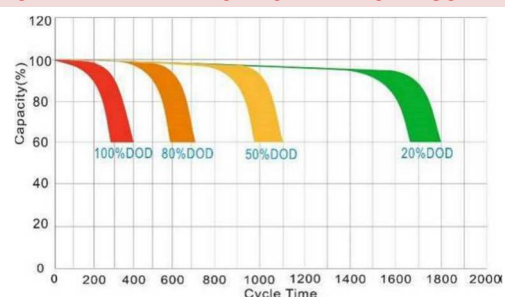
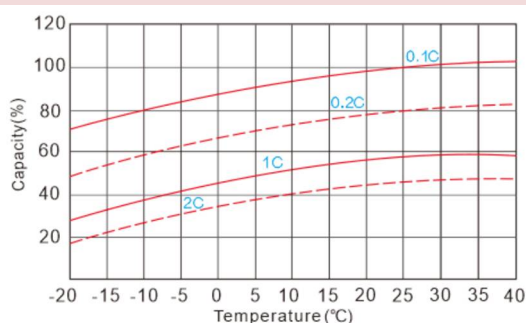
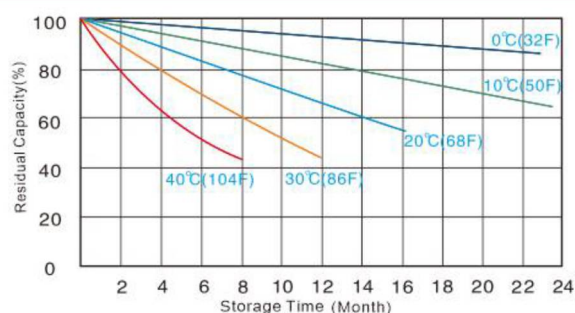
CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (19.0A)	420.0AH
10 hour rate (38.0A)	380.0AH
5 hour rate (64.6A)	325.0AH
3 hour rate (95.0A)	285.0AH
1 hour rate (209.0A)	214.0AH
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 76A.	
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 2.28A 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 76A 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	786	639	359	278	214	171	145	98	68	45.8	39.0	19.9
4.95V	758	615	344	266	211	166	140	97	67	45.1	38.7	19.8
5.10V	724	589	328	254	207	162	138	95	66	44.4	38.5	19.7
5.25V	682	553	311	242	202	157	133	92	65	43.5	38.2	19.6
5.40V	644	523	292	226	195	152	128	88	64	42.5	38.0	19.4

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

4.80V	4220	3432	2071	1537	1185	969	755	530	387	276	223	118
4.95V	4057	3299	1995	1475	1145	952	743	525	382	271	221	117
5.10V	3940	3204	1919	1413	1135	929	732	515	373	266	219	116
5.25V	3724	3028	1812	1340	1114	905	710	504	368	261	216	114
5.40V	3515	2857	1717	1268	1083	886	703	494	354	257	214	111