



## DATASHEET

# DCEV 320-6

6 V 320 AH

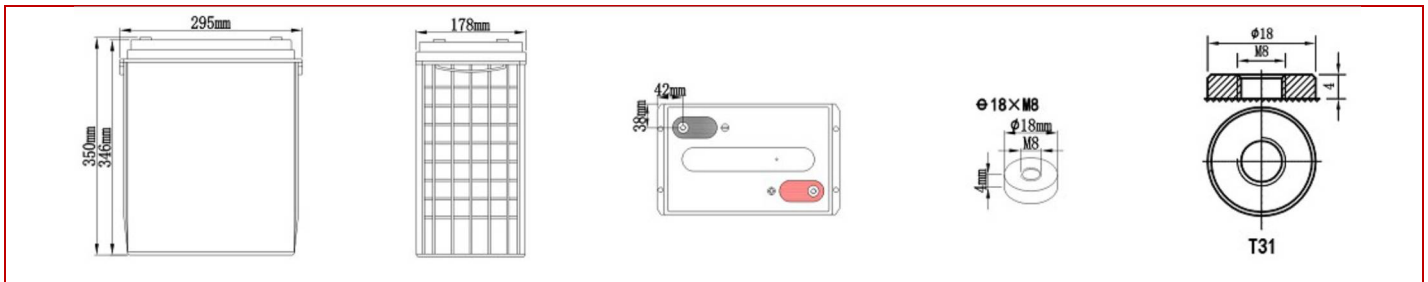
**AGM SEALED VRLA BATTERY**

**EUROBAT 2022 CLASSIFICATION: 12 Years – Long Life**

**Designed in accordance with IEC 60896-21/22**

## SPECIFICATIONS

Nominal Voltage	Nominal Capacity	Dimension ±3mm				Weight ±2%	Max Discharge Current (5s)	Internal Resistance	Standard Terminal	Container Material
		L	W	H	TH					
6V	320AH	295mm	178mm	346mm	350mm	46,5kg	-	≈1.45 mΩ	M8	ABS UL94-V0



## CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (15A)	320.0AH
10 hour rate (30A)	300.0AH
5 hour rate (51A)	255.5AH
3 hour rate (75A)	231.6AH
1 hour rate (180A)	194.0AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

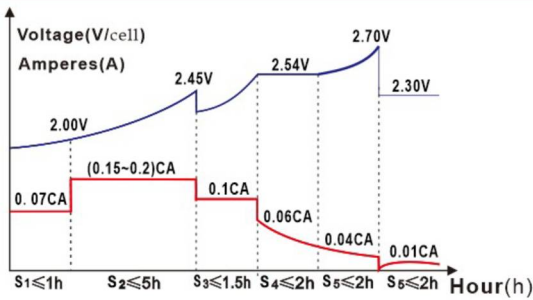
Cycle Application
1. Limit initial current less than 60A.
2. Charge until battery voltage (under charge) reaches 7.30V to 7.40V at 25°C(77°F).
3. Hold at 7.30V to 7.40V until current drop to under 18A for at least 3 hours.
4. Temperature compensation coefficient of charging voltage is -15mV/°C.
Standby 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.

Nominal Operating Temp. Range
25±3°C (77±5°F)

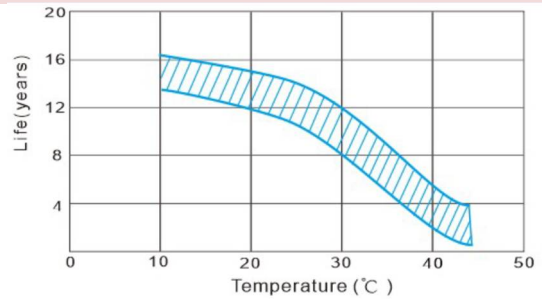
Operating Temperature
Wide operating temperature range from -20°C~50°C

NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

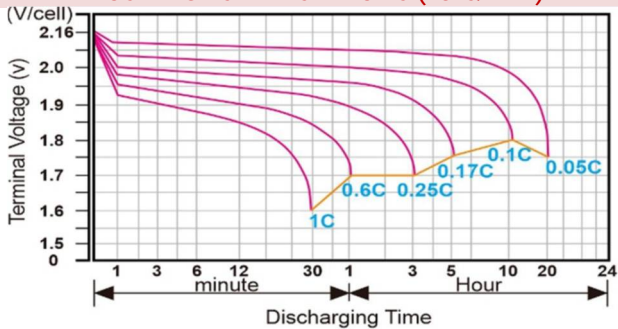
### CHARGE CHARACTERISTIC CURVE FOR CYCLE USE



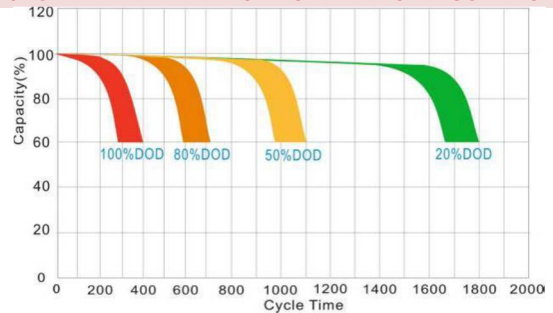
### EFFECT OF TEMPERATURE ON LONG TERM FLOAT LIFE



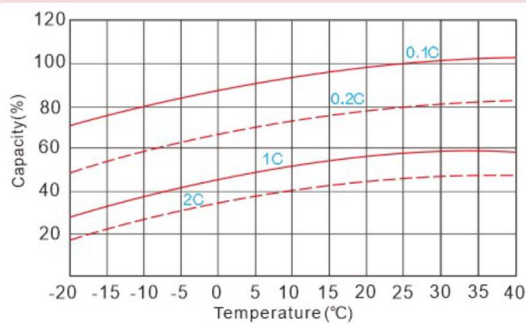
### DISCHARGE CHARACTERISTIC (25°C/77°F)



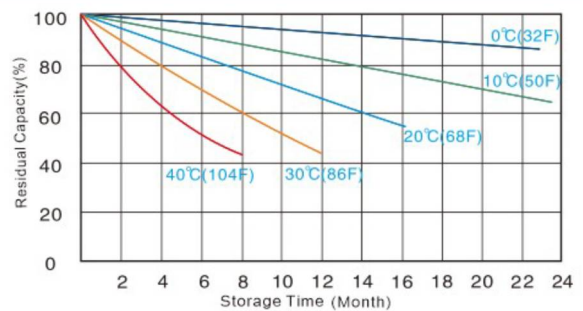
### CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE



### CAPACITY CURVE AT DIFFERENT TEMPERATURE



### SELF DISCHARGE CHARACTERISTICS



## Battery Discharge Table

End Voltage (V)	Minute (M)				Hour (H)							
	10	15	30	45	1	1.5	2	3	5	8	10	20
<b>Constant Current Discharge Data Sheet (Amperes at 25°C)</b>												
4.80V	770	583	311	279	194	154	129	81.1	56.3	39.5	31.8	16.4
4.95V	733	556	296	270	188	150	126	79.1	55.0	38.9	31.4	16.2
5.10V	698	530	282	260	184	147	123	77.2	53.6	38.0	31.1	16.1
5.25V	641	495	270	249	176	142	119	74.6	51.1	36.0	30.7	15.9
5.40V	582	463	260	237	170	135	114	72.0	48.8	34.2	30.0	15.7
<b>Constant Power Discharge Data Sheet (Watt at 25°C)</b>												
4.80V	4250	3068	1934	1412	1207	893	672	502	322	237	198	102
4.95V	4047	2922	1841	1364	1177	871	656	490	315	232	195	101
5.10V	3854	2782	1754	1318	1149	850	640	477	307	228	194	100
5.25V	3274	2588	1715	1289	1132	837	618	462	297	225	188	97.3
5.40V	3055	2394	1677	1244	1080	798	597	446	288	222	179	96.5



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