



DATASHEET
DCEV 420-6

6V 420AH

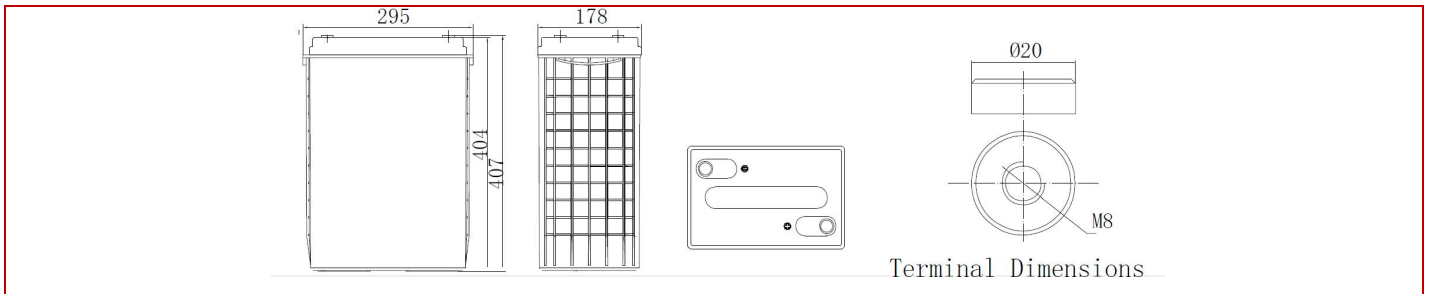
GEL SEALED VRLA BATTERY

EUROBAT 2022 CLASSIFICATION: 12 Years – Long Life

Designed in accordance with IEC 60896-21/22

SPECIFICATIONS

Nominal Voltage	Nominal Capacity	Dimension ±3mm				Weight	Max Discharge Current (5s)	Internal Resistance	Standard Terminal	Container Material
		L	W	H	TH					
6V	420AH	295mm	178mm	404mm	407mm	59kg	4.000A	≈1.5 mΩ	M8	ABS UL94-V0



CONSTANT-VOLTAGE CHARGE

Rated Capacity	
20 hour rate (21.0A)	420.0AH
10 hour rate (41.0A)	410.0AH
3 hour rate (111A)	333.0AH
Capacity affected by temperature	
40°C (104°F)	103%
25°C (77°C)	100%
0°C (32°F)	86%

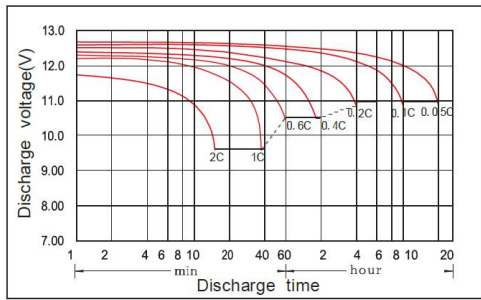
Charge Method (25°C)
Charge current: Max. 84A; Recom. 42A
Float Charge Voltage (-1.5mV/°C): 6.75-6.9V, recom. 7.05V (-2mV/°C)
Equalize charge: 6.9-7.05V, recom. 7.05V (-2mV/°C)
Cycle charge: 7.2-7.5V, recom. 7.2V (-3mV/°C)
Operating Temperature
Discharge: -20÷50°C
Charge: -20÷50°C
Storage: -20÷50°C

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

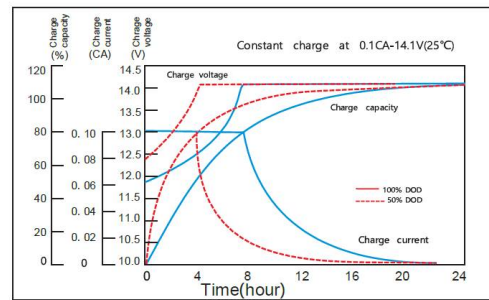
Self Discharge
3% of capacity declined per month at 25°C

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

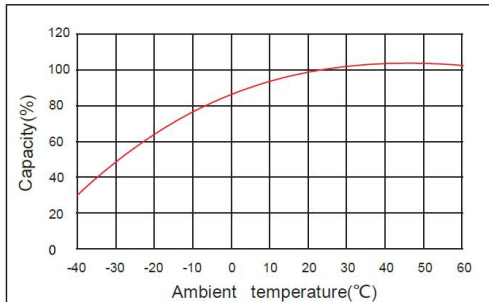
DISCHARGE CHARACTERISTIC



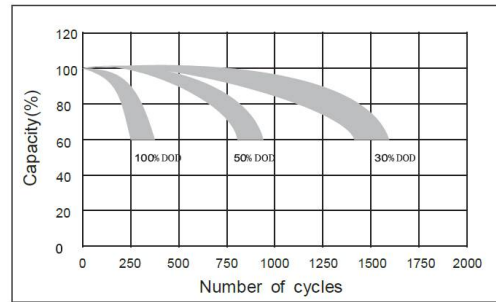
CHARGING CHARACTERISTIC



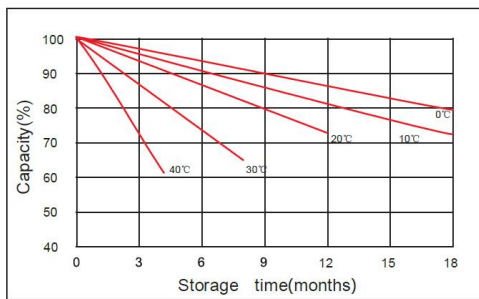
THE EFFECT OF TEMPERATURE ON CAPACITY



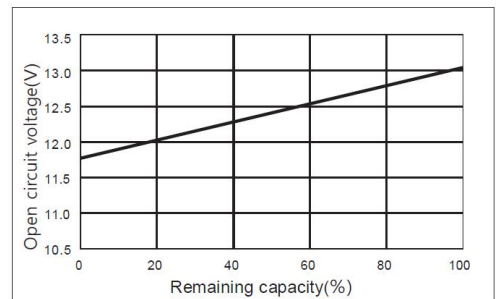
THE EFFECT OF DISCHARGE DEPTH ON CYCLE LIFE



CURVES OF SELF-DISCHARGE



CURVES OF OPEN CIRCUIT VOLTAGE VS. CAPACITY



Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1,60V / cell	306	306	306	306	306	258	174	160	115	83.1	77.0	61.5	50.6	42.6	21.9
1,65V / cell	301	301	301	301	301	257	172	158	114	82.3	76.4	61.0	50.2	42.3	21.6
1,70V / cell	289	289	289	289	289	255	170	156	112	81.4	75.6	60.3	49.8	41.8	21.3
1,75V / cell	266	266	266	266	266	252	169	154	111	80.8	74.8	59.8	49.4	41.5	21.0
1,80V / cell	238	238	238	238	238	245	167	151	110	80.0	72.6	59.0	49.0	41.0	20.7
1,85V / cell	212	212	212	212	212	227	162	143	103	77.6	69.0	57.4	47.0	39.8	20.2

Constant Power Discharge (Watts) at 25°C (77°F)

F.V/Time	5min	10min	15min	30min	45min	1h	1.5h	2h	3h	4h	5h	6h	8h	10h	20h
1,60V / cell	520	520	520	520	520	493	338	310	223	161	149	120	98.5	83.1	43.0
1,65V / cell	512	512	512	512	512	491	334	306	221	160	148	119	97.9	82.5	42.4
1,70V / cell	491	491	491	491	491	487	330	302	217	158	147	117	97.3	81.5	41.8
1,75V / cell	452	452	452	452	452	481	328	298	215	157	145	116	96.5	80.9	41.2
1,80V / cell	404	404	404	404	404	468	324	292	213	155	141	114	95.5	79.9	40.6
1,85V / cell	363	363	363	363	363	437	316	280	202	151	135	112	92.1	78.1	39.8



ENERPOWER S.R.L.

UFFICI e DEPOSITO: Via Boccioni, 7 - 20900 MONZA (MB)

Tel. +39 (039)-832152 Fax +39 (039)-2230441 E-mail : info@enerpowersrl.com - <https://www.enerpowersrl.com>