



URC Series-Lead Carbon

URC2-500

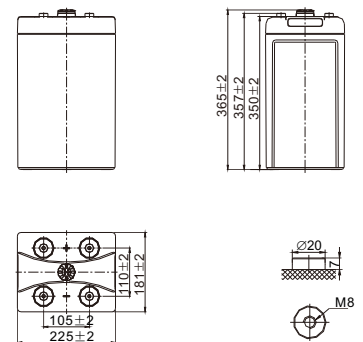
UPLUS
NEW TECHNOLOGY BATTERY

Specifications

Rated Voltage	2V	
Nominal Capacity	536Ah	(C ₁₀ , 1.80V/cell)
Dimension	Length	225mm (8.86 in.)
	Width	181mm (7.13 in.)
	Container Height	350mm (13.78 in.)
	Total Height	365mm (14.37 in.)
Approx Weight	37.5 Kg (82.7 lbs)	
Terminal	M8	
Container Material	ABS Flame Retardant Material to UL94V-0	
Rated Capacity (25°C)	536 Ah	(10hr, 53.6A, 1.80V/cell)
	469.5 Ah	(5hr, 93.9A, 1.75V/cell)
	412.5 Ah	(3hr, 135.7A, 1.75V/cell)
Short Circuit Current	5840A	
Internal Resistance(25°C)	Approx. 0.5mΩ	
Operating Temp. Range	Discharge	-20°C~55°C (-4°F~131°F)
	Charge	0°C~40°C (32°F~104°F)
	Storage	-20°C~50°C (-4°F~122°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Max. Discharging Current(25°C)	250.0A	
Max. Charging Current(25°C)	150.0A	
Charge voltage(25°C)	Cycle(Equalization)	2.30~2.40V
	Temp. Coefficient	-4mV/cell/°C
Effect of temp. to Capacity	40°C (104°F)	106%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	≤3.5% per month at 25°C	



Layout



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

F.V/Time	15min	30min	1h	3h	5h	8h	10h	20h	48h
1. 90V/cell	425.3	316.2	220.3	116.3	85.3	60.3	50.4	27.3	11.6
1. 85V/cell	499.8	368.2	248.9	124.4	88.6	62.6	52.1	27.9	11.9
1. 80V/cell	568.1	413.1	275.4	131.6	91.8	64.5	53.6	29.0	12.3
1. 75V/cell	693.6	440.6	294.8	135.7	93.9	65.8	54.9	29.5	12.5

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

F.V/Time	15min	30min	1h	3h	5h	8h	10h	20h	48h
1. 90V/cell	831.3	635.5	454.9	235.6	167.3	112.2	93.8	56.3	23.9
1. 85V/cell	956.8	752.8	527.3	254.0	172.4	120.4	101.0	58.1	24.8
1. 80V/cell	1050.6	846.6	580.4	268.3	178.5	124.4	105.1	60.5	25.8
1. 75V/cell	1102.6	878.2	593.6	277.4	183.6	128.5	107.1	61.6	26.2



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Applications

- Mobile container storage system
- Peak load shifting energy storage system
- Load tracking energy storage system
- Oil and electricity hybrid energy storage system
- Grid frequency adjustment energy storage system
- New energy communication base station, IDC, UPS etc.
- New energy generation (solar, wind, PV/wind hybrid) access to energy storage systems

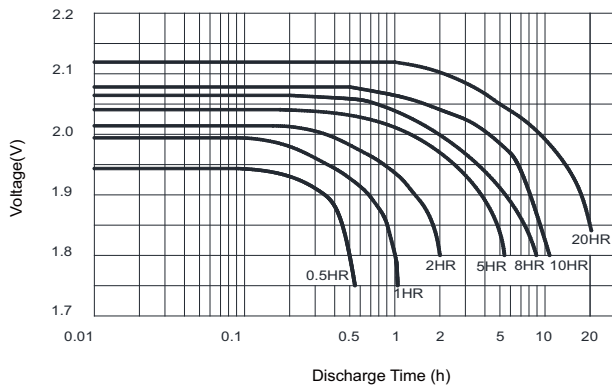
General Features

- Design life ≥ 15 years
- Adopt super carbon technology + deep cycle technology
- Excellent charging acceptance and super fast charge/large discharge performance
- Modular design and installation for less space, easy installation & maintenance
- Innovative robust design to ensure superb safety and reliability
- Horizontal installation, solve the problem of electrolyte stratification

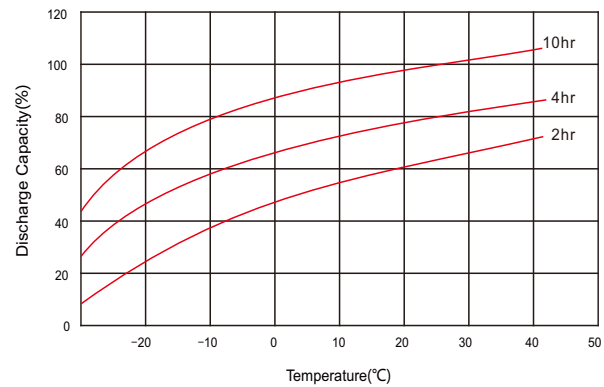
Standards

- Compliance with IEC 61427, BS EN 61427 standards
- Manufactured in UPLUS@TS16949 OHSAS 18001, ISO 9001 and ISO 14001 certified production facilities

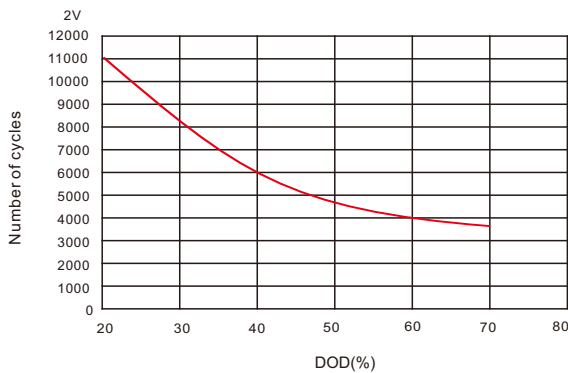
Discharge Characteristics



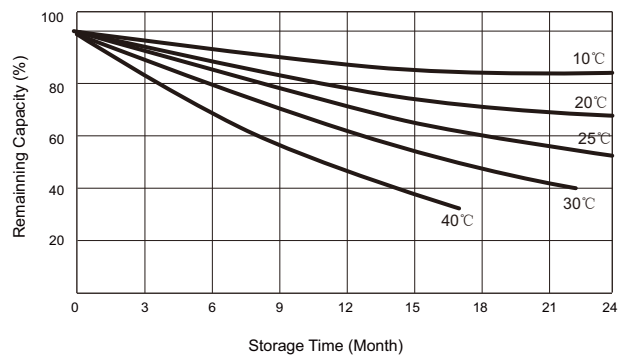
Temperature effects in relation to battery capacity



Cycle Life in Relation to DOD



Self Discharge Characteristics



ANHUI UPLUS ENERGY TECHNOLOGY CO., LTD.

