

**UP-G220-12**



Specification		
Nominal Voltage	12V	
Nominal Capacity (10HR)	220AH	
Dimension	Length	520±1mm (20.47 inches)
	Width	268±1mm (10.55 inches)
	Height	203±1mm (7.99 inches)
	Total Height	207±1mm (8.15 inches)
	Approx Weight	Approx 68.3kg
Terminal	T11	
Container Material	ABS	
Rated Capacity	235.4AH/11.77A	(20hr, 1.75V/cell, 25°C/77°F)
	220.0AH/22.0A	(10hr, 1.80V/cell, 25°C/77°F)
	193.5AH/38.7A	(5hr, 1.75V/cell, 25°C/77°F)
	140.4AH/140.4A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	2000A (5s)	
Internal Resistance	Approx ≤3.3mΩ	
Operating Temperature Range	Discharge: -30~60°C (-22~140°F)	
	Change : -30~60°C (-22~140°F)	
	Storage : -30~60°C (-22~140°F)	
Nominal Operating Temperature Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current Less than 44A Voltage 14.4-14.9V	
Standby Use	Initial Charging Current Less than 44A Voltage 13.6-13.8V	
Capacity affected by Temperature	40°C (104°F)	108%
	25°C (77°F)	100%
	0°C (32°F)	90%
	-15°C (5°F)	70%
Self Discharge	Batteries may be stored for up to 9 months at 25°C (77°F) and then a freshening charge is required.	

Constant Current Discharge (Amperes) at 25°C (77°F)											
F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.80V/cell	309.5	198.2	151.1	121.2	72.8	54.1	37.8	33.0	26.4	22.0	11.66
1.75V/cell	330.0	205.7	156.9	125.6	75.7	55.9	38.7	33.7	26.8	22.2	11.77
1.70V/cell	352.2	215.2	164.1	130.9	77.7	57.2	39.4	34.3	27.3	22.4	11.92
1.67V/cell	375.1	221.5	170.3	136.2	79.9	58.7	40.3	35.0	27.7	22.7	12.10
1.60V/cell	397.1	233.9	177.1	140.4	82.5	60.7	40.9	35.6	27.9	23.1	12.21

Constant Power Discharge (Watts/cell) at 25°C (77°F)											
F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.80V/cell	596.2	389.0	291.9	235.8	140.4	104.9	73.9	64.7	52.1	43.6	23.2
1.75V/cell	635.1	405.5	302.1	243.8	145.2	108.0	75.5	65.8	52.8	43.8	23.4
1.70V/cell	676.9	425.9	314.6	253.0	148.7	110.2	76.6	66.9	53.5	44.2	23.6
1.67V/cell	726.4	435.4	324.9	262.0	152.2	112.9	77.7	67.8	54.1	44.7	23.9
1.60V/cell	759.2	464.4	336.4	269.3	156.4	115.9	79.0	68.9	54.6	45.1	24.1



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