

# UP SERIES-GEL Battery

## UP-G250-12



Specification		
Nominal Voltage	12V	
Nominal Capacity (10HR)	250AH	
Dimension	Length	520±1mm (20.47 inches)
	Width	268±1mm (10.55 inches)
	Height	220±1mm (8.66 inches)
	Total Height	224±1mm (8.82 inches)
	Approx Weight	Approx 70.3kg
Terminal	T11	
Container Material	ABS	
Rated Capacity	267.6AH/13.38A	(20hr, 1.75V/cell, 25°C/77°F)
	250.0AH/25.0A	(10hr, 1.80V/cell, 25°C/77°F)
	220.0AH/44.0A	(5hr, 1.75V/cell, 25°C/77°F)
	159.5AH/159.5A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	2000A (5s)	
Internal Resistance	Approx ≤2.8mΩ	
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 50A Voltage 14.4-14.9V	
Standby Use	Initial Charging Current Less than 50A 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	351.8	225.3	171.8	137.8	82.8	61.5	43.0	37.5	30.0	25.0	13.25
1.75V/cell	375.0	233.8	178.3	142.8	86.0	63.5	44.0	38.3	30.5	25.3	13.38
1.70V/cell	400.3	244.5	186.5	148.8	88.3	65.0	44.8	39.0	31.0	25.5	13.55
1.67V/cell	426.3	251.8	193.5	154.8	90.8	66.8	45.8	39.8	31.5	25.8	13.75
1.60V/cell	451.3	265.8	201.3	159.5	93.8	69.0	46.5	40.5	31.8	26.3	13.88

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

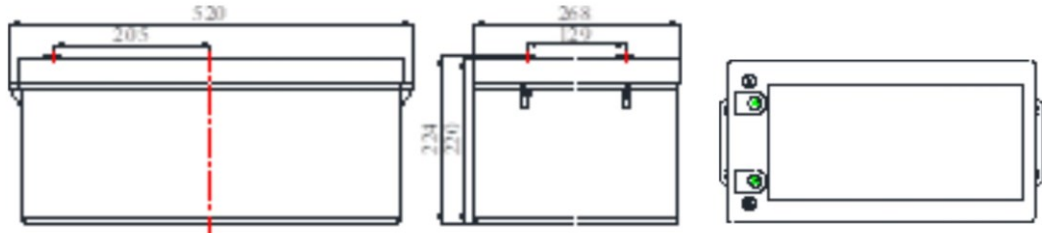
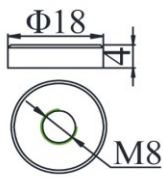
F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.80V/cell	677.5	442.0	331.8	268.0	159.5	119.3	84.0	73.5	59.3	49.5	26.4
1.75V/cell	721.8	460.8	343.3	277.0	165.0	122.8	85.8	74.8	60.0	49.8	26.6
1.70V/cell	769.3	484.0	357.5	287.5	169.0	125.3	87.0	76.0	60.8	50.3	26.9
1.67V/cell	825.5	494.8	369.3	297.8	173.0	128.3	88.3	77.0	61.5	50.8	27.2
1.60V/cell	862.8	527.8	382.3	306.0	177.8	131.8	89.8	78.3	62.0	51.3	27.4

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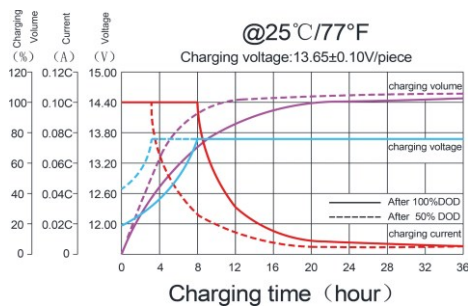
## UP-G250-12

### Dimensions

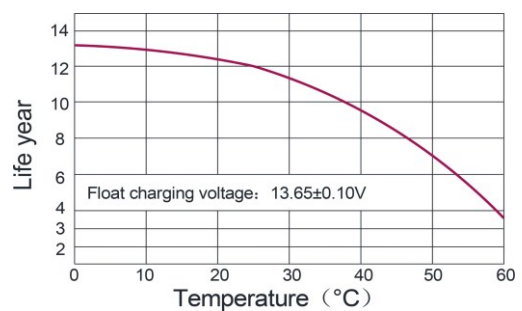
■ T11 Terminal  
Unit: mm



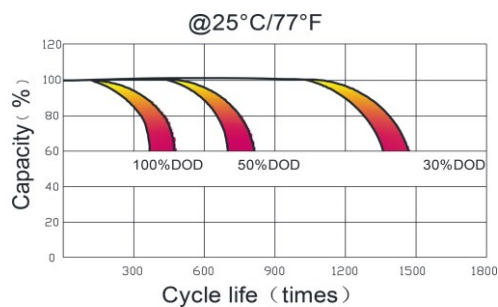
### Charging Characteristics



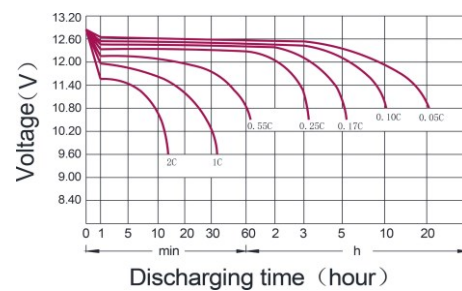
### Temperature Effect on Design Service Life



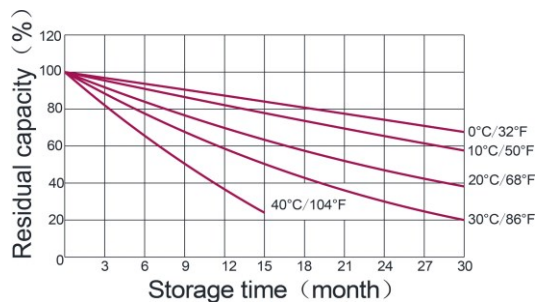
### Cycle Life vs. Depth of Discharge



### Discharge Characteristics



### Temperature Effect on Battery Self-discharge



### Temperature Effect on Capacity

