

# UP Series UP36-6

GENERAL PURPOSE AGM



## Main Features

- **High Reliability**

Extensive control processes, from raw materials to delivery to the end customer, within the international quality standards implemented in the company.

- **Valve Regulated Lead Acid batteries**

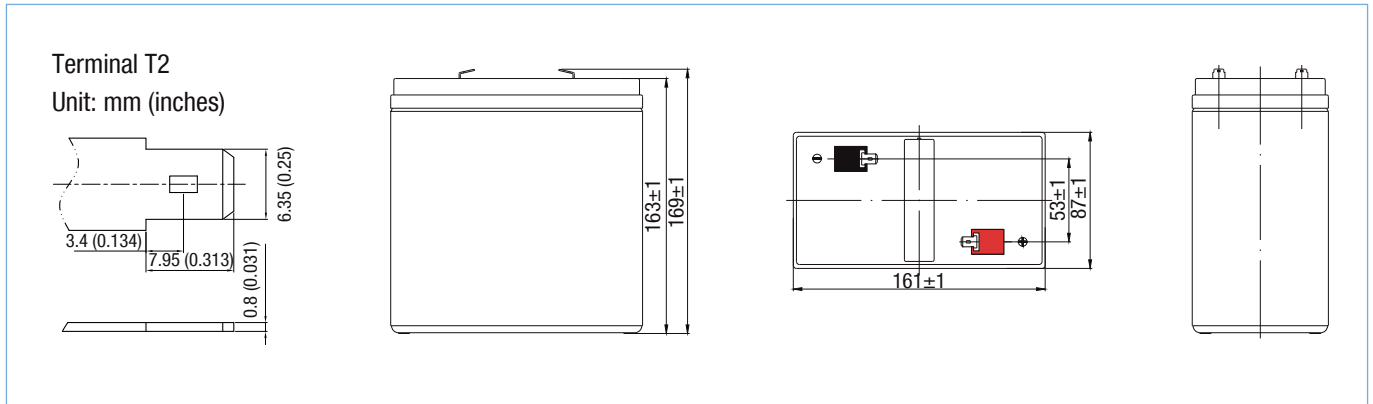
Designed for better gas recombination, with minimal hydrogen losses, aid to inner pressure regulation, increasing its performance and security.

## Technical Specifications

Nominal Voltage (V)	6
Nominal Capacity (20 Hr)	36.0 Ah
Dimensions	Length: 161 ± 1mm (6.34 inches)
	Width: 87 ± 1mm (3.43 inches)
	Height: 163 ± 1mm (6.42 inches)
	Total Height (+ terminal): 169 ± 1mm (6.65 inches)
Approx. Weight	5.5 Kg (12.1 lbs)
Terminal	T2 / T3
Container Material	ABS
Rated Capacity	36.0 Ah / 1.80 A (20hr, 1.80V/cell, 25°C / 77°F)
	33.5 Ah / 3.35 A (10hr, 1.80V/cell, 25°C / 77°F)
	30.6 Ah / 6.12 A (5hr, 1.75V/cell, 25°C / 77°F)
	27.5 Ah / 9.18 A (3hr, 1.75V/cell, 25°C / 77°F)
	22.6 Ah / 22.6 A (1hr, 1.60V/cell, 25°C / 77°F)
Maximum Discharge Current	540 A (5s)
Internal Resistance	Approx. 8 mΩ
Operating Temperature Range	Discharge: -15 ~ 50°C (5 ~ 122°F)
	Charge: 0 ~ 40°C (32 ~ 104°F)
	Storage: -15 ~ 40°C (5 ~ 104°F)
Nominal Operating Temperature Range	25 ± 3°C (77 ± 5°F)
Cycle Use	Initial Charging Current less than 12.6 A Voltage. 7.2~7.5V at 25°C (77°F) Temp. Coefficient -15mV/°C
Standby Use	No limit on Initial Charging Current Voltage. 6.75~6.9V at 25°C (77°F) Temp. Coefficient -10mV/°C
Capacity affected by Temperature	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	Batteries may be stored for up to 6 months at 25°C (77°F) and then a freshening charge is required.



## Battery Dimensions



## Battery Discharge Tables

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

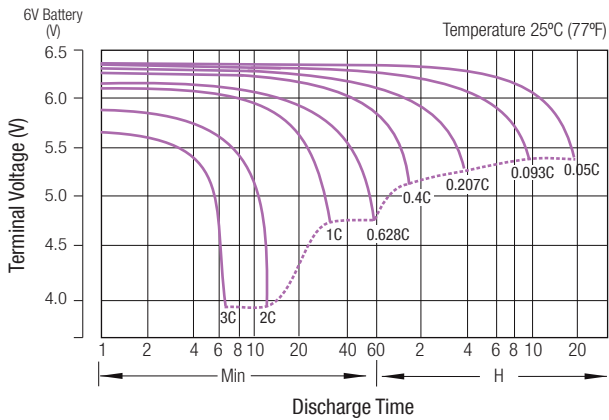
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	68.6	52.6	43.6	37.7	29.2	21.5	18.1	10.7	8.38	6.81	5.55	4.82	3.89	3.25	1.78
1.80V/cell	92.0	67.3	52.7	44.6	34.4	25.0	20.3	11.7	9.01	7.27	5.96	5.17	4.12	3.35	1.80
1.75V/cell	103.8	73.9	57.6	47.9	35.7	25.9	21.2	12.1	9.18	7.43	6.12	5.31	4.19	3.44	1.82
1.70V/cell	114.3	80.6	61.4	50.4	37.2	27.0	21.9	12.4	9.44	7.63	6.27	5.42	4.25	3.51	1.85
1.65V/cell	126.0	86.9	65.3	53.5	39.2	27.6	22.4	12.6	9.84	7.89	6.45	5.54	4.32	3.58	1.88
1.60V/cell	139.0	94.4	69.9	57.0	41.4	28.8	22.6	13.1	10.1	8.14	6.66	5.66	4.36	3.62	1.89

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

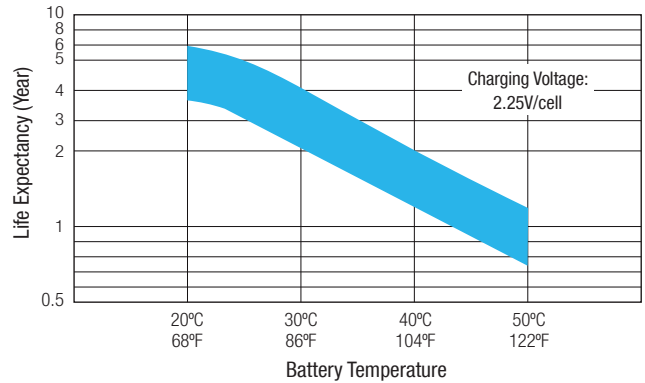
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	125.3	97.2	81.4	71.1	55.6	41.3	34.9	20.8	16.3	13.3	10.9	9.48	7.67	6.43	3.53
1.80V/cell	166.5	122.8	97.0	82.8	64.6	47.6	38.9	22.5	17.5	14.1	11.6	10.12	8.12	6.62	3.56
1.75V/cell	183.7	132.8	104.6	88.2	66.5	49.0	40.5	23.3	17.7	14.4	11.9	10.37	8.24	6.78	3.59
1.70V/cell	196.7	141.4	110.2	92.0	68.8	50.7	41.7	23.8	18.2	14.8	12.2	10.57	8.34	6.92	3.65
1.65V/cell	213.8	151.2	116.2	97.0	72.0	51.5	42.3	24.0	18.9	15.2	12.5	10.76	8.45	7.05	3.70
1.60V/cell	230.4	160.4	122.3	102.2	75.5	53.4	42.5	24.9	19.4	15.6	12.8	10.96	8.52	7.11	3.71



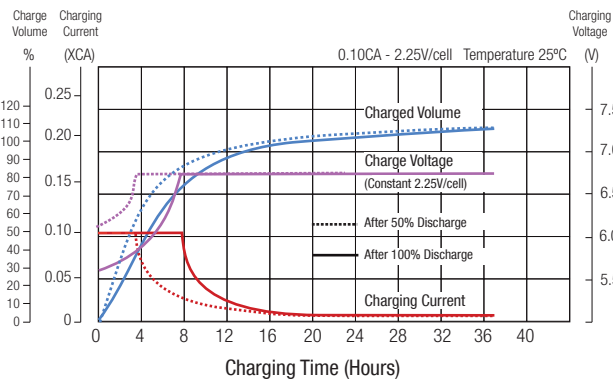
### Discharge Characteristics



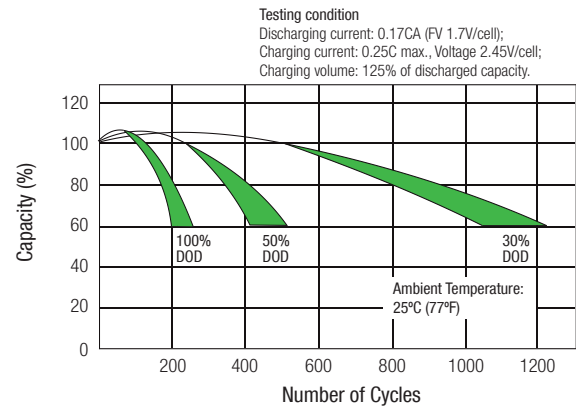
### Effect of Temperature on Long Term Float Life



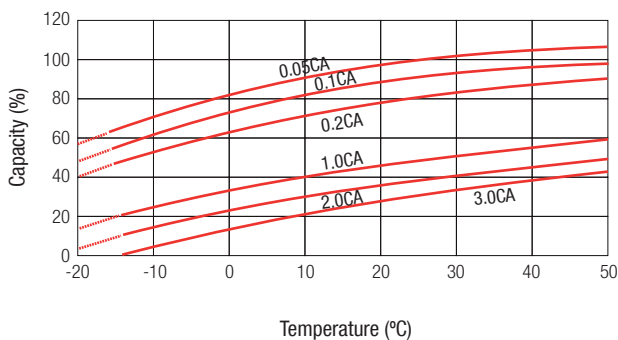
### Float Charging Characteristics



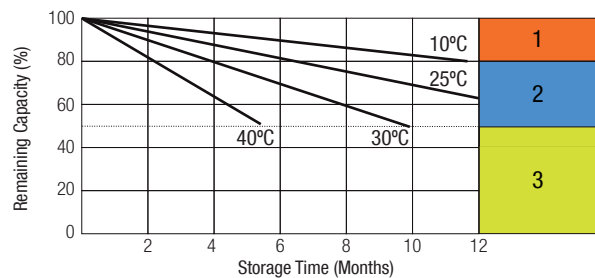
### Cycle Life in Relation to Depth of Discharge



### Temperature Effects in Relation to Battery Capacity



### Self Discharge Characteristics



- 1** No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required).
- 2** Supplementary charge required before use. Optional charging way as below:
  1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
  2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
  3. Charged for 8-10 hours at limited current 0.05CA.
- 3** Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is recharged.

