

UP Series G75-12

GENERAL PURPOSE GEL



Main Features

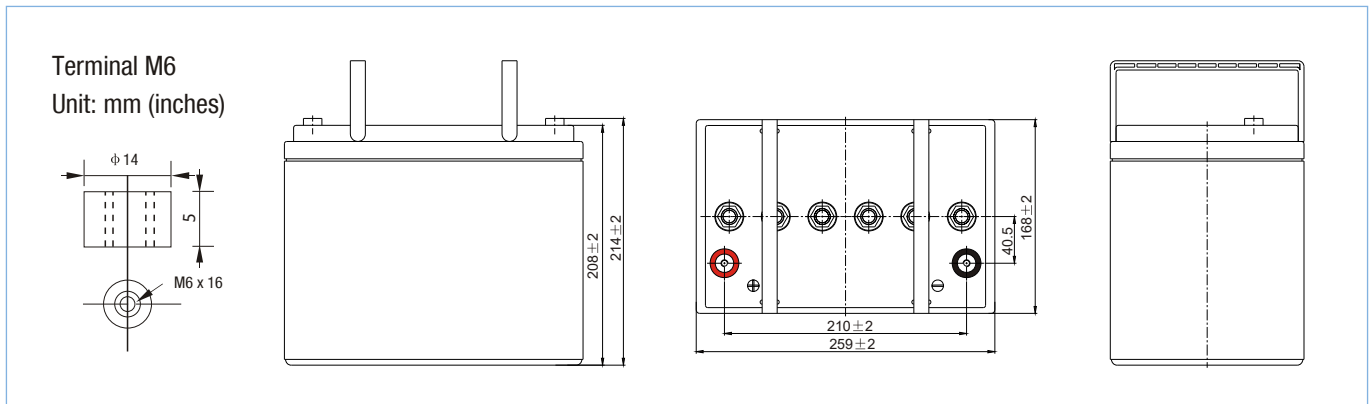
- **Longer Design Life**
Designed for 12 years of service life at 25°C.
- **Uniform Electrolyte Distribution**
Using high quality silica (silicon dioxide) we obtain a uniform electrolyte distribution for a better performance.

Technical Specifications

Nominal Voltage (V)	12
Nominal Capacity (20 Hr)	75 Ah
Dimensions	Length: 259 ± 3 mm (10.2 inches)
	Width: 168 ± 2 mm (6.61 inches)
	Container Height: 208 ± 3 mm (8.19 inches)
	Total Height (+terminal): 214 ± 3 mm (8.43 inches)
Approx. Weight	Approx. 23.0 kg (50.7 lbs)
Terminal	M6
Container Material	ABS
Rated Capacity	75.0 Ah / 3.75 A (20hr, 1.80V/cell, 25°C / 77°F)
	69.8 Ah / 6.98 A (10hr, 1.75V/cell, 25°C / 77°F)
	60.0 Ah / 12 A (5hr, 1.75V/cell, 25°C / 77°F)
	52 Ah / 17.36 A (3hr, 1.75V/cell, 25°C / 77°F)
	41.25 Ah / 41.25 A (1hr, 1.67V/cell, 25°C / 77°F)
Maximum Discharge Current	700 A (5 s)
Internal Resistance	Approx. 7.9 mΩ
Operating Temperature Range	Discharge: -20 ~ 55°C (-4 ~ 131°F)
	Charge: 0 ~ 40°C (32 ~ 104°F)
	Storage: -20 ~ 50°C (-4 ~ 122°F)
Nominal Operating Temperature Range	25 ± 3°C (77 ± 5°F)
Cycle Use	Initial Charging Current less than 14.0 A. Voltage 14.4~15V at 25°C (77°F) Temp. Coefficient -30mV/°C
Standby Use	No limit on Initial Charging Current Voltage. 13.5~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°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 9 months at 25°C (77°F) and then a freshening charge is required.



Battery Dimensions



Battery Discharge Tables

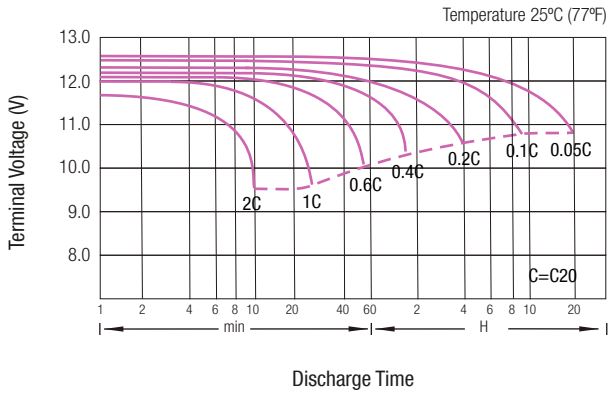
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	63.43	49.82	38.04	31.82	20.14	15.43	12.75	11.04	9.49	8.4	7.58	6.92	6.55	3.6
1.80V/cell	72.64	55.61	41.89	35.14	21.86	16.5	13.5	11.57	9.96	8.8	7.94	7.29	6.84	3.75
1.75V/cell	81.64	61.18	45.32	37.61	23.14	17.36	14.14	12.0	10.32	9.11	8.2	7.5	6.98	3.83
1.70V/cell	87.96	65.57	48.11	39.75	24.54	18.11	14.57	12.43	10.67	9.41	8.44	7.7	7.14	3.88
1.67V/cell	91.61	68.14	49.82	41.25	25.18	18.75	15.0	12.64	10.82	9.55	8.57	7.8	7.22	3.91
1.60V/cell	99.21	72.86	53.46	43.82	26.14	19.5	15.54	13.07	11.14	9.75	8.72	7.97	7.36	3.96

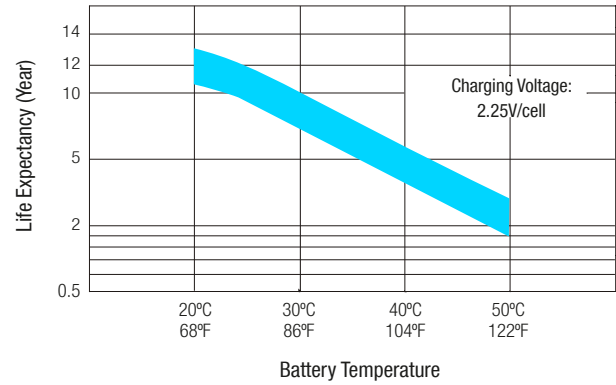
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	20min	30min	45min	1h	2h	3h	4h	5h	6h	7h	8h	9h	10h	20h
1.85V/cell	121.39	96.0	73.71	61.93	39.43	30.11	25.07	21.75	18.75	16.71	15.11	13.82	13.07	7.19
1.80V/cell	137.25	106.29	80.68	68.04	42.43	32.14	26.46	22.71	19.71	17.36	15.75	14.46	13.61	7.48
1.75V/cell	152.57	115.71	86.57	72.43	44.89	33.86	27.64	23.57	20.36	18.0	16.18	14.89	13.82	7.62
1.70V/cell	162.54	122.89	91.29	76.18	47.36	35.25	28.5	24.21	21.0	18.54	16.71	15.32	14.14	7.7
1.67V/cell	167.36	126.32	93.86	78.54	48.32	36.21	29.04	24.64	21.21	18.75	16.93	15.43	14.36	7.77
1.60V/cell	179.25	134.04	100.07	83.04	50.04	37.39	30.11	25.29	21.64	19.07	17.14	15.75	14.57	7.88

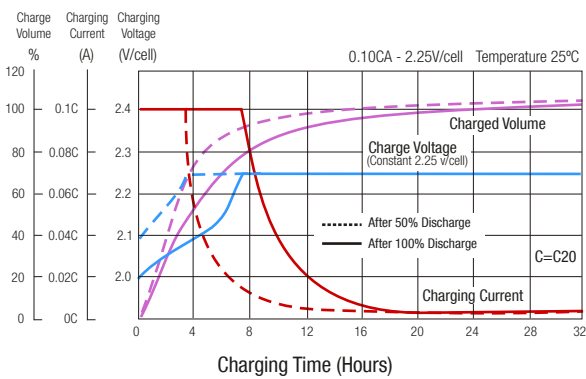
Discharge Characteristics



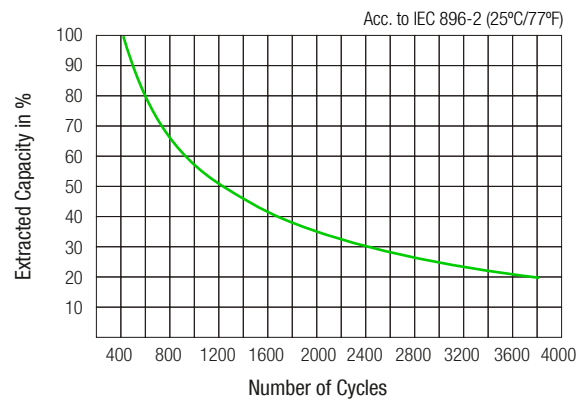
Effect of Temperature on Long Term Float Life



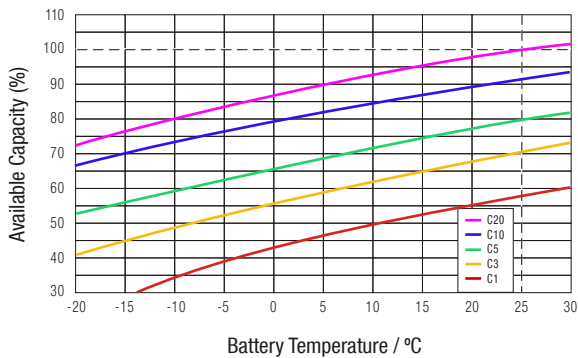
Float Charging Characteristics



Cycle Life in Relation to Depth of Discharge



Temperature Effects in Relation to Battery Capacity



General Relation of Capacity VS. Storage Time

