

UP Series G150-12

GENERAL PURPOSE GEL



Main Features

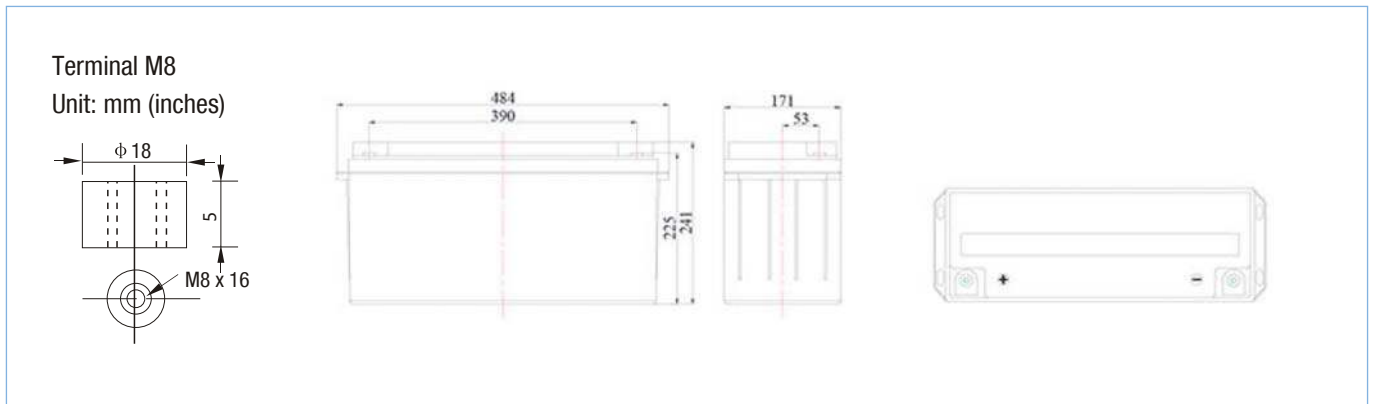
- **Longer Design Life**
Designed for 12 years of service life at 25°C.
- **Uniform Electrolyte Distribution**
Using high quality silica (silicon dioxide) we obtain a uniform electrolyte distribution for a better performance.

Technical Specifications

Nominal Voltage (V)	12
Nominal Capacity (20 Hr)	150 Ah
Dimensions	Length: 484 ± 1 mm (19.05 inches)
	Width: 171 ± 1 mm (6.73 inches)
	Container Height: 241 ± 1 mm (9.48 inches)
	Total Height (+terminal): 241 ± 1 mm (9.48 inches)
Approx. Weight	Approx. 43.7 kg (96.34 lbs)
Terminal	M8
Container Material	ABS
Rated Capacity	160.6 Ah / 8.03 A (20hr, 1.75V/cell, 25°C/77°F)
	150.0 Ah / 15.0 A (10hr, 1.80V/cell, 25°C/77°F)
	132.0 Ah / 26.4 A (5hr, 1.75V/cell, 25°C/77°F)
	95.7 Ah / 95.7 A (1hr, 1.60V/cell, 25°C/77°F)
Maximum Discharge Current	1500 A (5 s)
Internal Resistance	Approx. ≤ 5.0 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°C ± 3 (77°F ± 5)
Cycle Use	Initial Charging Current Less than 30 A Voltage 14.4 V - 14.9 V
Standby Use	Initial Charging Current Less than 30 A Voltage 13.6 V - 13.8 V
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.



Battery Dimensions



Battery Discharge Tables

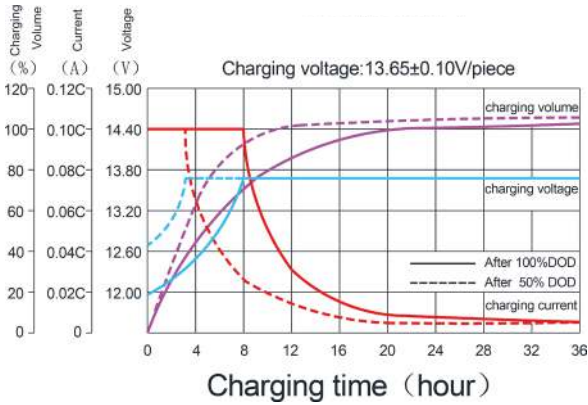
Constant Current Discharge (Amperes) at 25°C (77°F)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.80V/cell	211.1	135.2	103.1	82.7	49.7	36.9	25.8	22.5	18.0	15.0	7.95
1.75V/cell	225.0	140.3	107.0	85.7	51.6	38.1	26.4	23.0	18.3	15.2	8.03
1.70V/cell	240.2	146.7	111.9	89.3	53.0	39.0	26.9	23.4	18.6	15.3	8.13
1.67V/cell	255.8	151.1	116.1	92.9	54.5	40.1	27.5	23.9	18.9	15.5	8.25
1.60V/cell	270.8	159.5	120.8	95.7	56.3	41.4	27.9	24.3	19.1	15.8	8.33

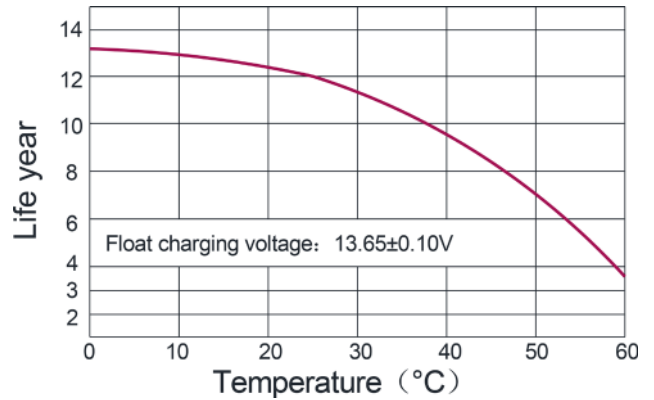
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	15min	30min	45min	1h	2h	3h	5h	6h	8h	10h	20h
1.80V/cell	406.5	265.2	199.1	160.8	95.7	71.6	50.4	44.1	35.6	29.7	15.8
1.75V/cell	433.1	276.5	206.0	166.2	99.0	73.7	51.5	44.9	36.0	29.9	16.0
1.70V/cell	461.6	290.4	214.5	172.5	101.4	75.2	52.2	45.6	36.5	30.2	16.1
1.67V/cell	495.3	296.9	221.6	178.7	103.8	77.0	53.0	46.2	36.9	30.5	16.3
1.60V/cell	517.7	316.7	229.4	183.6	106.7	79.1	53.9	47.0	37.2	30.8	16.4

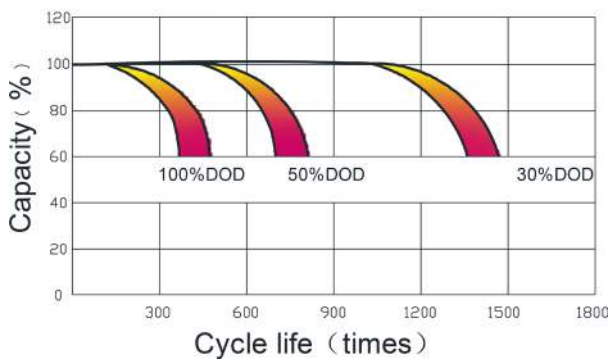
Charging Characteristics (@25°C/77°F)



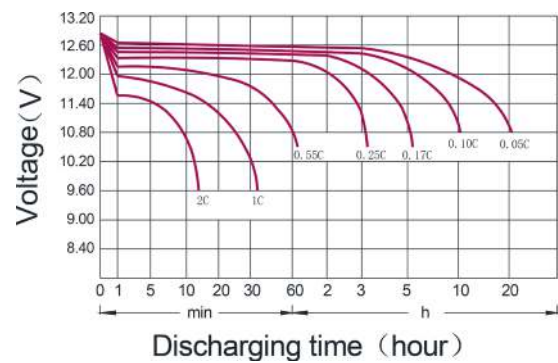
Temperature Effects on Design Service Life



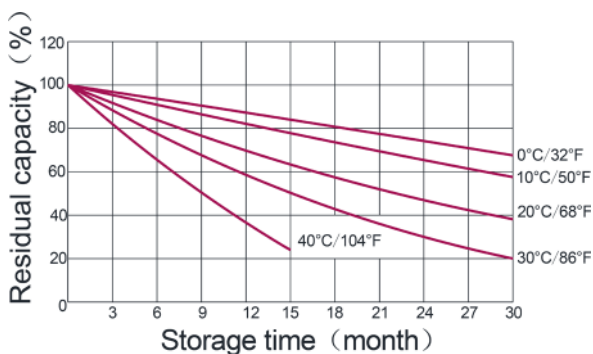
Cycle Life vs. Depth of Discharge (@25°C/77°F)



Discharge Characteristics (@25°C/77°F)



Temperature Effects on Battery Self-Discharge



Temperature Effects on Capacity

