

UP-G10-12



Specification		
Nominal Voltage	12V	
Nominal Capacity (20HR)	10.0AH	
Dimension	Length	152±1mm (5.98 inches)
	Width	99±1mm (3.90 inches)
	Height	96±1mm (3.78 inches)
	Total Height	102±1mm (4.02 inches)
Approx Weight	3.1±3%	
Terminal	Female Copper Insert (F1/F2)	
Container Material	ABS	
Rated Capacity	10.0 AH	20 hour rate (0.50A, 10.50V)
	9.40 AH	10 hour rate (0.94A, 10.8V)
	8.65 AH	5 hour rate (1.73A, 10.5V)
	6.58 AH	1 hour rate (6.58A, 9.6V)
Max. Discharge Current	150A (5s)	
Internal Resistance	≤ 35mΩ	
Operating Temperature Range	Discharge: -20~50°C (-4~122°F)	
	Change : -20~50°C (-4~122°F)	
	Storage : -20~50°C (-4~122°F)	
Nominal Operating Temperature Range	25°C (77°F)	
Cycle Charge	Initial Charging Current Less than 3.0A Voltage 14.4-14.8V	
Standby Use	No limit on Initial Charging Current Voltage. 13.6V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C	
Capacity affected by Temperature	40°C (104°F)	102%
	25°C (77°F)	100%
	0°C (32°F)	85%
	-15°C (5°F)	65%
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	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V/cell	34.38	24.86	19.00	11.30	8.03	6.58	3.90	2.78	1.80	1.21	0.99	0.529
1.67V/cell	33.75	24.00	18.30	11.00	7.88	6.50	3.85	2.72	1.78	1.20	0.98	0.519
1.70V/cell	33.13	23.00	17.90	10.80	7.74	6.40	3.81	2.67	1.75	1.18	0.97	0.510
1.75V/cell	31.50	21.90	17.40	10.60	7.58	6.29	3.76	2.63	1.73	1.17	0.96	0.500
1.80V/cell	28.20	20.70	17.00	10.40	7.29	6.16	3.68	2.51	1.68	1.13	0.94	0.490

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

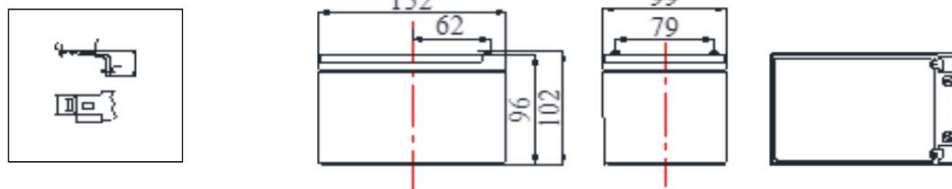
F.V/Time	5min	10min	15min	30min	45min	1h	2h	3h	5h	8h	10h	20h
1.60V/cell	66.17	44.70	34.60	20.90	15.44	12.30	7.33	5.26	3.42	2.33	1.91	1.030
1.67V/cell	64.97	43.60	33.70	20.50	15.15	12.20	7.28	5.23	3.41	2.32	1.90	1.014
1.70V/cell	62.40	42.20	33.10	20.30	14.88	12.10	7.26	5.14	3.39	2.31	1.89	1.000
1.75V/cell	57.60	40.70	32.60	20.00	14.60	12.00	7.23	5.04	3.36	2.26	1.88	0.986
1.80V/cell	52.30	38.90	32.10	19.80	14.04	11.80	7.08	4.85	3.24	2.17	1.82	0.972



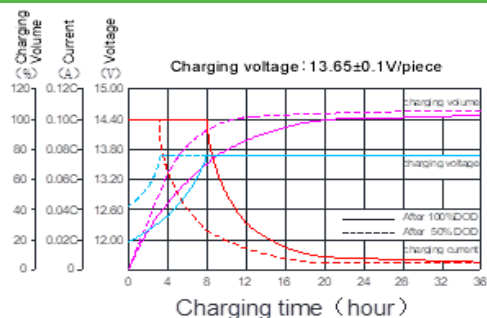
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Dimensions

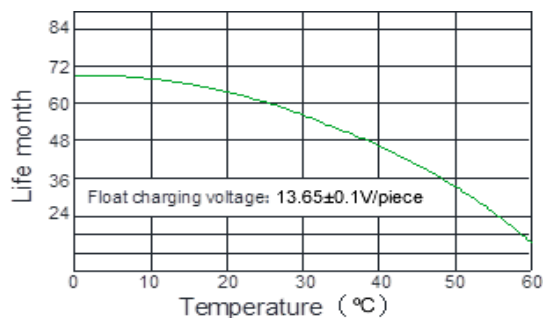
Terminal



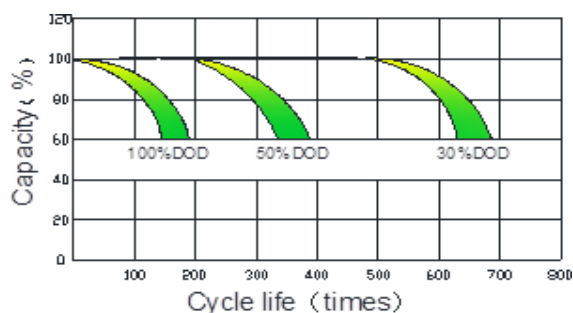
Charging Characteristics (@25°C/77°F)



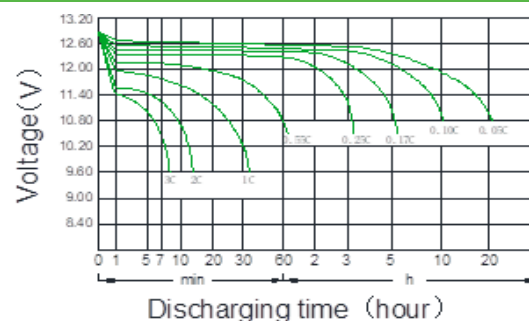
Temperature Effects on Design Service Life



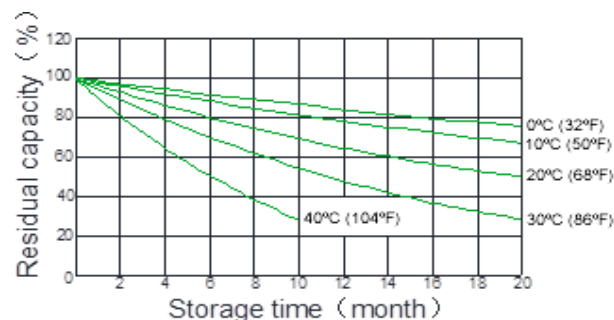
Cycle Life vs. Depth of Discharge (@25°C/77°F)



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



Temperature Effects on Battery Self-Discharge



Temperature Effects on Capacity

