

XCELL XP 3.4-12

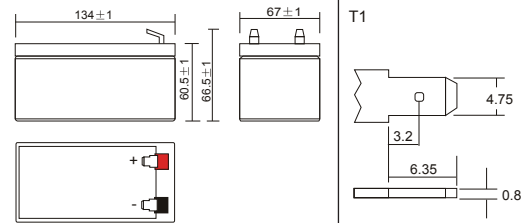
12V 3.4 AH (20 HOUR)



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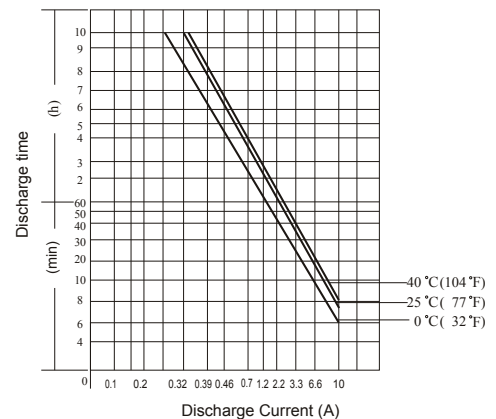
Dimensions (mm)



PHYSICAL SPECIFICATION

Nominal Voltage		12V
Nominal Capacity (20HR)		3.4AH
Dimension	Length	134 ± 1mm
	Width	67 ± 1mm
	Container Height	60.5 ± 1mm
	Total Height (with Terminal)	66.5 ± 1mm
Weight		Approx. 1.20 kg
Standard Terminal		T1 (standard)

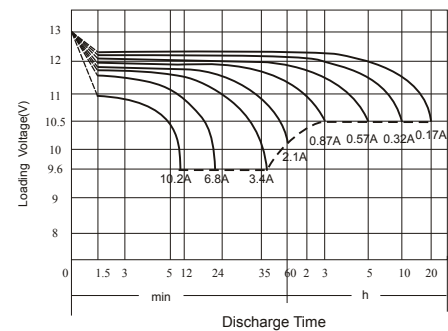
Discharging Current & Discharge Duration Time



ELECTRICAL SPECIFICATION

Rated Capacity	20 hour rate (170mA)	3.4AH	Constant Voltage Charge	Cycle	Initial Charging Current less than 1.02A. Voltage 14.4V-15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C
	10 hour rate (320mA)	3.2AH			
	5 hour rate (570mA)	2.85AH			
	1 hour rate (2.11A)	2.11AH			
	15 minute rate (66.6A)	1.67AH			
Capacity affected by Temperature	40°C (104°F)	103%	Standby	No limit on Initial Charging Current Voltage 13.5V-13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C	
	25°C (77°F)	100%			
	0°C (32°F)	86%			
Internal Resistance	Fully charged battery (25°C, 77°F) 45mΩ				

Discharge Characteristics (25°C, 77°F)



Constant Current (Amp) and Constant Power (Watt/Cell) Discharge Table

FINAL VOLTAGE	TIME	Discharge Time (Minute) to final voltage / cell													
		0.5	1	2	3	6	10	20	30	60	120	180	300	600	
1.75V	A	20.5	18.9	17.1	13.7	12.0	9.42	4.66	3.4	2.04	1.07	0.87	0.57	0.32	
25°C	W	32.5	28.0	25.5	20.3	18.0	15.2	9.13	4.76	3.79	2.23	1.82	1.18	0.64	
1.70V	A	27.6	24.8	22.5	18.0	14.5	10.3	5.34	3.79	2.14	1.17	0.96	0.60	0.33	
25°C	W	44.5	38.2	34.5	28.0	21.8	16.0	10.3	6.31	4.08	2.33	1.82	1.28	0.66	
1.60V	A	35.9	31.7	27.9	22.1	17.1	10.9	6.22	3.98	2.23	1.26	1.02	0.64	0.34	
25°C	W	51.8	44.7	39.9	31.4	24.3	18.5	11.1	6.51	4.08	2.43	1.92	1.28	0.68	
1.75V	A	18.0	16.2	15.2	12.0	9.62	7.87	4.47	3.21	1.85	1.02	0.75	0.43	0.29	
5°C	W	28.6	25.7	23.9	18.9	16.0	13.4	8.06	4.27	3.11	1.92	1.50	0.96	0.53	
1.70V	A	24.8	22.8	20.5	16.2	12.8	9.62	4.66	3.30	1.91	1.07	0.85	0.49	0.30	
5°C	W	38.3	33.7	30.8	24.8	20.3	14.9	9.13	4.66	3.40	2.10	1.60	1.02	0.60	
1.60V	A	30.8	27.3	23.7	18.6	14.3	10.5	4.86	3.50	1.94	1.17	0.91	0.53	0.31	
5°C	W	47.6	41.7	37.1	29.9	23.7	15.7	9.91	5.05	3.50	2.14	1.71	1.07	0.64	

