

XCELL XP 1.2-12

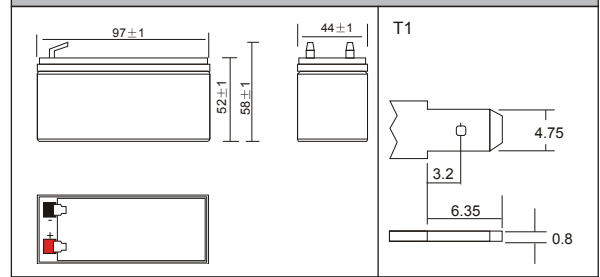
12V 1.2AH (20 HOUR)



XP 1.2-12



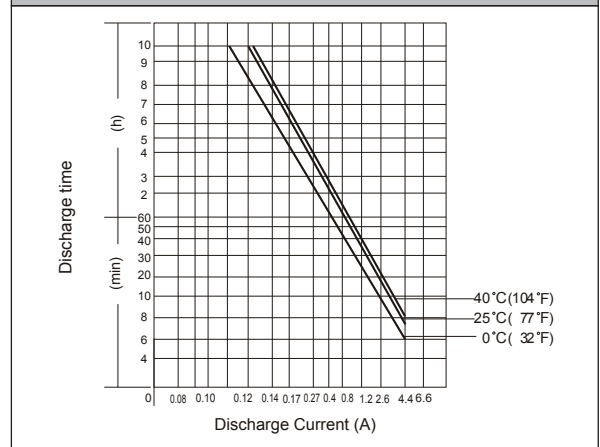
Dimensions (mm)



PHYSICAL SPECIFICATION

Nominal Voltage		12V
Nominal Capacity (20HR)		1.2AH
Dimension	Length	97 ± 1mm
	Width	44 ± 1mm
	Container Height	52 ± 1mm
	Total Height (with Terminal)	58 ± 1mm
Weight		Approx 0.60 kg
Standard Terminal		T1 (standard)

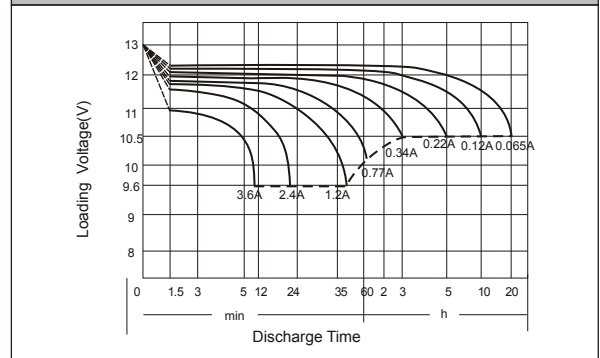
Discharging Current & Discharge Duration Time



ELECTRICAL SPECIFICATION

Rated Capacity	20 hour rate (mA)	1.3AH	Constant Voltage Charge	Cycle	Initial Charging Current less than 0.36A. Voltage 14.4V-15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C
	10 hour rate (120mA)	1.2AH			
	5 hour rate (220mA)	1.1AH			
	1 hour rate (770mA)	0.77AH			
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) 65mΩ				

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	8.0	7.2	6.5	5.3	5.2	3.6	1.8	1.4	0.74	0.44	0.34	0.22	0.12	
25°C	W	12.5	10.8	9.8	7.8	6.9	5.8	3.5	1.9	1.40	0.87	0.68	0.44	0.24	
1.70V	A	10.7	9.6	8.7	6.9	5.9	4.4	2.0	1.4	0.77	0.47	0.36	0.23	0.13	
25°C	W	17.2	14.7	13.3	10.8	8.9	6.4	3.9	2.4	1.50	0.91	0.72	0.45	0.25	
1.60V	A	13.9	12.2	10.8	8.5	7.0	5.1	2.2	1.5	0.83	0.48	0.37	0.24	0.13	
25°C	W	20.1	17.3	15.4	12.1	9.9	7.5	4.3	2.5	1.50	0.94	0.74	0.46	0.25	
1.75V	A	6.9	6.3	5.8	4.6	4.0	3.2	1.7	1.0	0.69	0.40	0.31	0.20	0.11	
5°C	W	11.0	9.9	9.2	7.3	6.5	5.5	3.1	1.8	1.21	0.74	0.58	0.39	0.21	
1.70V	A	9.6	8.8	7.9	6.3	5.3	4.0	1.8	1.2	0.73	0.42	0.33	0.21	0.12	
5°C	W	14.7	13.0	11.9	9.6	8.3	6.2	3.5	1.9	1.32	0.81	0.64	0.41	0.23	
1.60V	A	11.9	10.6	9.1	7.2	5.8	4.3	1.9	1.3	0.76	0.43	0.34	0.22	0.12	
5°C	W	18.4	16.1	14.3	11.6	9.7	6.4	3.9	2.1	1.43	0.83	0.65	0.42	0.23	

