

UPS ULTRA HIGH RATE

XP12-150FR (12V, 150WPC, 32.9AH)

Specification

Nominal Voltage	12V
Nominal Capacity(8 HR)	32.9 Ah at 1.75V/cell @ 25°C/77°F
Watts(15 min rate)	150.0 Watts/cell at 1.67V/cell @ 25°C/77°F
Dimensions	Length 195mm(7.68inches)
	Width 130mm(5.12inches)
	Container Height 164mm(6.46inches)
	Total Height (with Terminal) 167mm(6.57inches)
Approx Weight	Approx 10.2 kg (22.5 lbs)
Terminal	T6 with copper alloy insert for a M6 bolt
Container Material	Flame Retardant ABS to UL94-V0
Rated Capacity	35.0 AH/1.75A (20hr, 1.80V/cell, 25°C/77°F)
	32.9 AH/4.11A (8hr, 1.75V/cell, 25°C/77°F)
	30.8 AH/6.15A (5hr, 1.75V/cell, 25°C/77°F)
	28.6 AH/9.54A (3hr, 1.75V/cell, 25°C/77°F)
	26.8 AH/26.8A (1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	630A (5s)
Internal Resistance	Approx 7.0mΩ
Operating Temp.Range	Discharge : -20~55°C (-4~131°F)
	Charge : 0~50°C (32~122°F)
	Storage : -20~55°C (-4~131°F)
Nominal Operating Temperature	20 to 25°C (68 to 77°F)
Standby Use (Float Voltage)	No limit on Initial Charging Current. 13.5V~13.8V at 25°C (77°F) Temp. Coefficient -20mV/°C
Cycle Use	Initial Charging Current less than 10.5A. 14.4V~15.0V at 25°C (77°F) Temp. Coefficient -30mV/°C
Capacity affected by Temperature	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	≤3% of capacity declined per month at 25°C



Application

- ◆ Critical UPS (High rate) applications
- ◆ High power backup supply
- ◆ Emergency power supply
- ◆ Emergency lighting
- ◆ Electric starting

Compliant Standards

Eurobat Classification:

- ◆ High Performance (10~12 years design life)
- ◆ IEC60896-21/22:2004
- ◆ BS 6290 Part 4

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

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	102.3	73.7	59.1	49.4	37.9	28.3	22.6	12.7	9.04	7.06	5.85	5.01	3.93	3.26	1.72
1.80V/cell	118.2	82.7	65.2	53.7	40.7	29.9	23.8	13.2	9.31	7.28	6.02	5.15	4.03	3.35	1.75
1.75V/cell	132.8	89.9	70.3	57.2	42.7	31.2	24.7	13.5	9.54	7.46	6.15	5.25	4.11	3.41	1.79
1.70V/cell	144.0	96.6	74.9	60.5	44.6	32.3	25.5	13.9	9.70	7.60	6.27	5.37	4.20	3.48	1.82
1.67V/cell	156.0	103.3	79.1	63.6	46.4	33.3	26.2	14.2	10.0	7.78	6.41	5.48	4.31	3.54	1.85
1.60V/cell	166.8	109.2	82.7	66.6	48.4	34.4	26.8	14.6	10.2	7.98	6.58	5.63	4.40	3.62	1.90

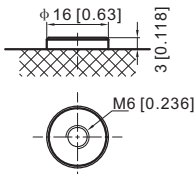
Constant Power Discharge (Watts/Cell) at 25 °C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	199.0	144.2	116.2	97.6	75.4	56.4	45.2	25.6	18.3	14.3	11.9	10.2	8.05	6.71	3.55
1.80V/cell	227.6	160.2	127.1	105.1	80.1	59.3	47.4	26.3	18.7	14.7	12.2	10.4	8.22	6.85	3.59
1.75V/cell	253.0	172.4	135.7	111.1	83.4	61.2	48.9	26.9	19.0	14.9	12.4	10.6	8.33	6.94	3.66
1.70V/cell	271.2	183.3	142.9	116.2	86.3	62.9	49.9	27.4	19.3	15.1	12.5	10.8	8.45	7.03	3.70
1.67V/cell	291.5	194.5	150.0	121.4	89.3	64.5	51.2	28.0	19.7	15.4	12.7	10.9	8.62	7.12	3.75
1.60V/cell	308.1	203.4	155.2	125.9	92.2	65.9	51.7	28.3	20.0	15.7	13.0	11.1	8.73	7.21	3.81

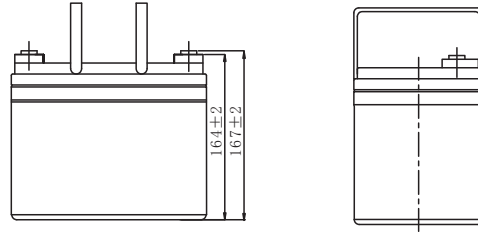
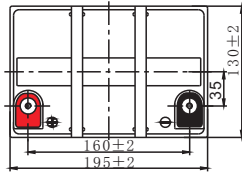
Dimensions

T6 Terminal

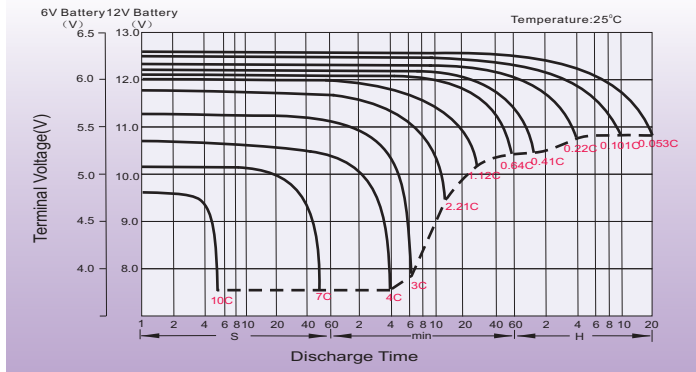
Unit: mm [inches]



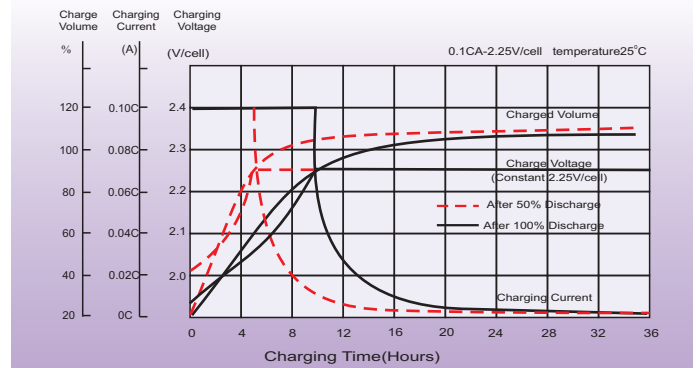
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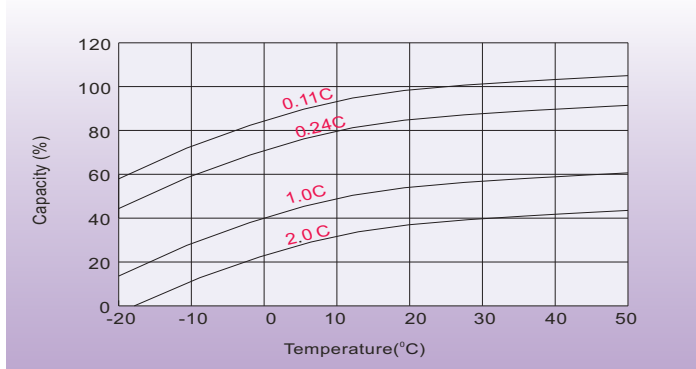
Discharge Characteristics



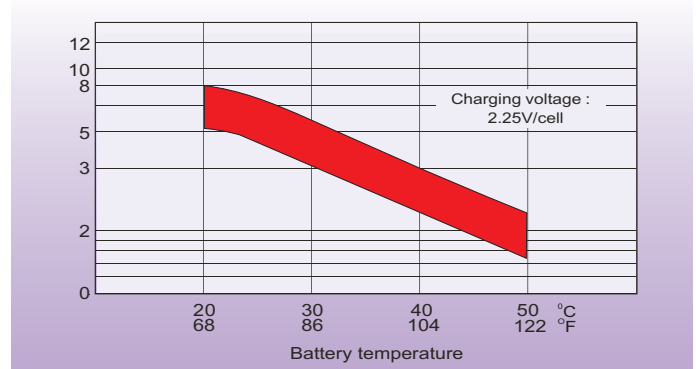
Float Charging Characteristics



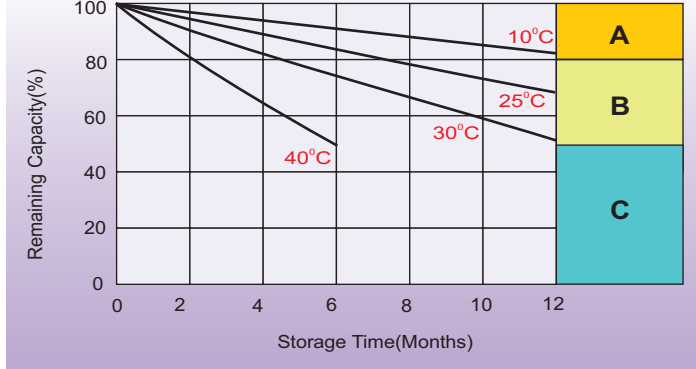
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Self Discharge Characteristics



- A** No supplementary charge required
(Carry out supplementary charge before use if 100% capacity is required.)
- B** Supplementary charge required before use. Optional charging way as below:
 1. Charged for above 3 days at limited current 0.25CA and constant voltage 2.25V/cell.
 2. Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V/cell.
 3. Charged for 8-10 hours at limited current 0.05CA.
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

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