

Specification

Nominal Voltage	12V
Watts(10min Rate)	667.5 Watts at 1.60V/cell
Dimension	Length 335.3mm (13.2inches)
	Width 172.2mm (6.7inches)
	Container Height 275.3mm (10.8inches)
	Total Height (with Terminal) 278.3mm (10.9inches)
Approx Weight	Approx 42.4 kg (93.5lbs)
Terminal	T8
Container Material	ABS
Rated Capacity	147.0AH/14.7A (10hr, 1.80V/cell, 25°C/77°F)
	140.8 AH/17.6A (8hr, 1.80V/cell, 25 °C/77°F)
	130.5 AH/26.1A (5hr, 1.75V/cell, 25°C/77°F)
	120.3 AH/40.1A (3hr, 1.75V/cell, 25°C/77°F)
	109.5 AH/109.5A (1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	2015A (5s)
Internal Resistance	Approx 3.1mΩ
Operating Temp. Range	Discharge : -15~50°C (5~122°F)
	Charge : 0~40°C (32~104°F)
	Storage : -15~40°C (5~104°F)
Nominal Operating Temp. Range	25±3°C (77±5°F)
Cycle Use	Initial Charging Current less than 46.5A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C
	No limit on Initial Charging Current Voltage 13.5V~13.8V at 25°C(77°F)Temp. Coefficient -20mV/°C
Capacity affected by Temperature	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	HPX series batteries may be stored for up to 6 months at 25 C(77 F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

Applications

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

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

F.V/Time	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h
1.85V/cell	342.3	282.7	227.9	197.5	173.4	138.3	106.0	87.0	51.5	37.2	29.6	24.6	21.4	17.1	14.3
1.80V/cell	375.2	327.4	252.0	217.6	192.0	150.7	114.1	92.1	54.0	38.8	30.7	25.5	22.1	17.6	14.7
1.75V/cell	409.4	381.3	281.8	241.2	207.9	161.8	121.1	97.3	56.3	40.1	31.5	26.1	22.6	17.9	15.0
1.70V/cell	455.1	425.9	309.7	265.0	225.9	173.3	127.9	102.0	58.2	41.2	32.3	26.7	23.0	18.3	15.3
1.67V/cell	492.5	466.9	341.3	288.5	240.4	180.8	133.3	105.6	60.1	42.4	33.1	27.3	23.5	18.7	15.5
1.60V/cell	537.7	507.8	369.2	304.4	253.4	190.0	138.9	109.5	61.7	43.2	34.0	28.0	24.2	19.1	15.9

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

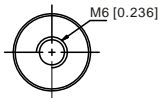
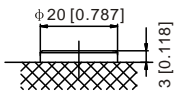
F.V/Time	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h
1.85V/cell	642.7	537.7	438.4	382.7	337.8	271.0	209.1	172.5	102.8	74.4	59.5	49.8	43.5	34.9	29.5
1.80V/cell	698.4	615.4	480.8	417.8	371.3	293.0	223.2	181.3	106.8	77.1	61.2	51.1	44.4	35.6	30.0
1.75V/cell	751.3	710.1	530.7	458.9	398.9	312.2	235.1	190.2	110.7	79.2	62.5	52.0	45.2	36.1	30.4
1.70V/cell	844.5	785.4	577.9	499.2	430.2	332.1	246.5	197.9	113.6	80.8	63.8	53.0	45.8	36.7	30.9
1.67V/cell	896.0	852.0	630.1	539.0	454.3	344.4	255.5	203.8	116.8	82.8	65.0	53.9	46.6	37.2	31.2
1.60V/cell	957.8	908.9	667.5	558.6	468.8	354.4	261.2	207.5	117.7	83.9	65.5	54.3	47.1	37.5	31.3

Specifications subject to change without notice.

Dimensions

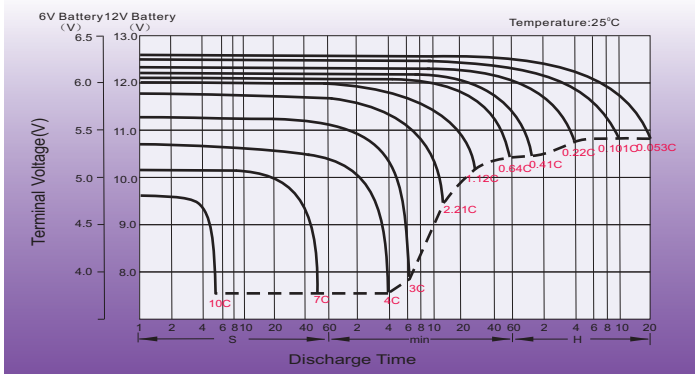
T8 Terminal

Unit: mm [inches]

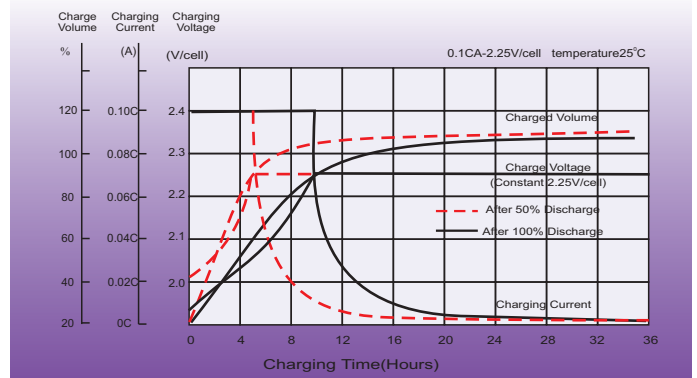


Unit: mm [inches]

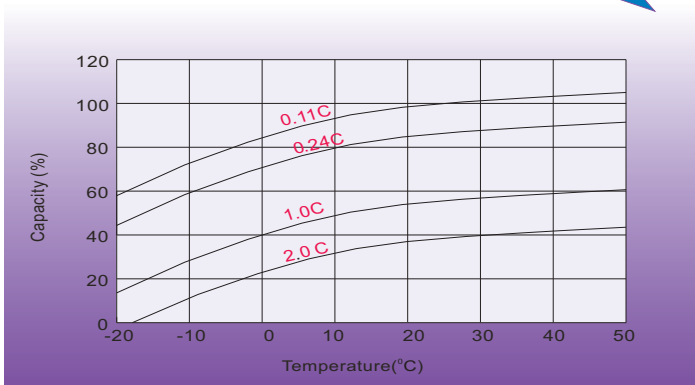
Discharge Characteristics



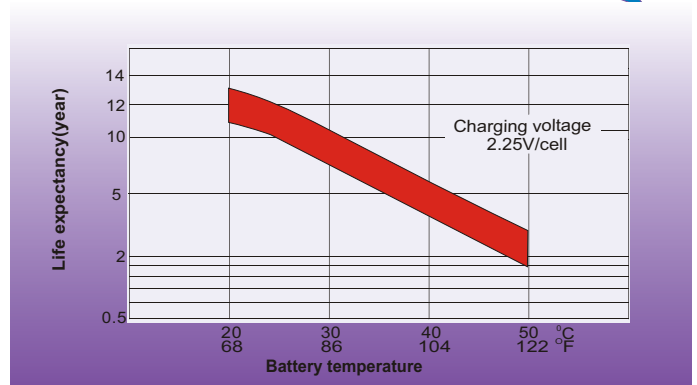
Float Charging Characteristics



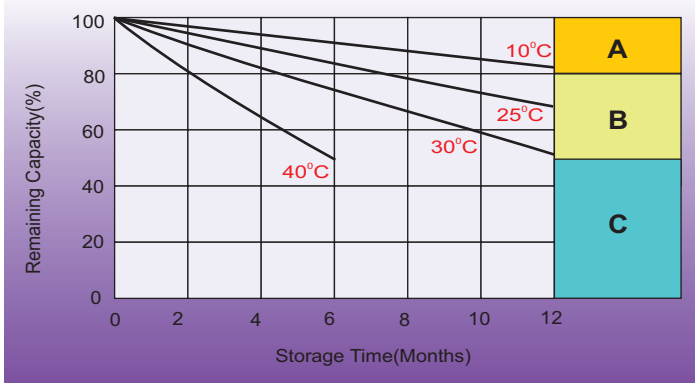
Temperature Effects in Relation to Battery Capacity



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.