

HPX12480 (12V90.7AH)

Specification

Nominal Voltage	12V	
Watts(10min Rate)	482.0 Watts at 1.60V/cell	
Dimension	Length	306 ± 3mm(12.05inches)
	Width	168 ± 2mm(6.61inches)
	Container Height	208 ± 3mm(8.19inches)
	Total Height (with Terminal)	211 ± 3mm(8.31inches)
Approx Weight	Approx 28.0 kg (61.74lbs)	
Terminal	T6	
Container Material	ABS	
Rated Capacity	90.70 AH/9.07A	(10hr ,1.80V/cell,25°C/77°F)
	87.20 AH/10.9A	(8hr,1.80V/cell,25 °C/77°F)
	83.50 AH/16.7A	(5hr,1.75V/cell,25°C/77°F)
	77.10 AH/25.7A	(3hr,1.75V/cell,25°C/77°F)
	67.5 AH/67.5A	(1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	1425A (5s)	
Internal Resistance	Approx 4.0mΩ	
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 28.5A.Voltage	
	14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
Standby Use	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	254.0	209.8	171.1	145.5	123.1	95.0	69.9	56.5	32.5	24.0	19.1	15.8	13.6	10.7	8.84
1.80V/cell	269.1	234.8	190.7	158.5	133.1	100.7	73.4	59.2	34.3	25.1	19.8	16.3	14.0	10.9	9.07
1.75V/cell	281.5	262.2	209.2	171.4	142.2	105.8	76.7	61.6	35.8	25.7	20.1	16.7	14.3	11.2	9.25
1.70V/cell	310.6	290.7	226.9	182.4	151.3	111.2	80.1	63.5	36.6	26.2	20.6	17.1	14.6	11.4	9.43
1.67V/cell	339.1	321.5	242.8	195.3	159.6	116.5	82.8	65.3	37.3	26.7	21.0	17.3	14.9	11.6	9.59
1.60V/cell	369.3	348.8	258.8	205.6	166.7	120.4	85.8	67.5	38.3	27.2	21.4	17.7	15.2	11.9	9.76

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

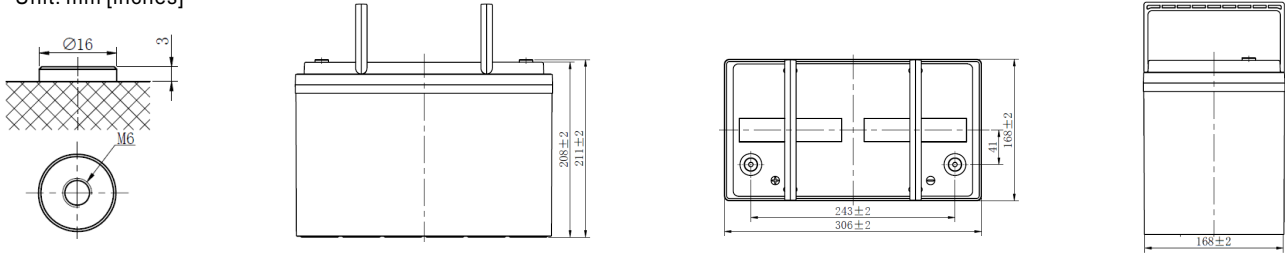
F.V/Time	3min	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h
1.85V/cell	467.8	408.1	334.7	286.3	243.4	188.8	139.6	113.2	65.3	44.2	38.8	32.2	27.7	21.8	18.2
1.80V/cell	513.1	452.1	369.2	308.6	260.6	198.3	145.4	117.7	65.9	48.4	39.8	33.1	28.3	22.3	18.6
1.75V/cell	528.6	499.6	401.3	330.8	276.0	206.7	150.7	121.6	71.1	51.3	40.3	33.5	28.9	22.7	18.8
1.70V/cell	588.8	547.6	430.4	348.0	290.7	214.9	155.8	124.3	72.1	52.0	41.1	34.1	29.2	23.0	19.1
1.67V/cell	631.7	600.7	457.2	370.3	304.6	223.9	160.4	127.2	73.1	52.7	41.6	34.4	29.6	23.3	19.2
1.60V/cell	679.2	644.5	482.0	385.7	315.2	229.1	164.4	130.2	74.5	53.2	42.0	34.9	29.9	23.6	19.4

Specifications subject to change without notice.

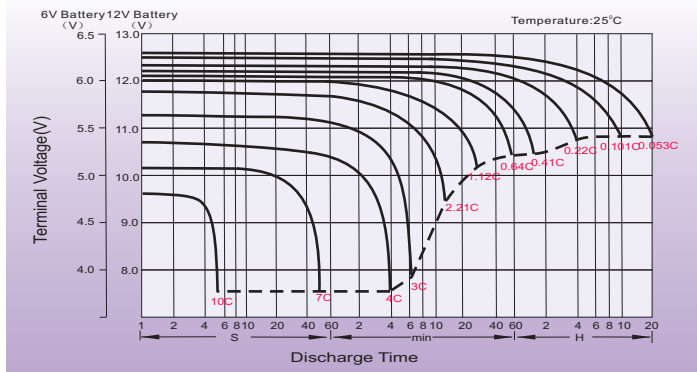
Dimensions

T6 Terminal

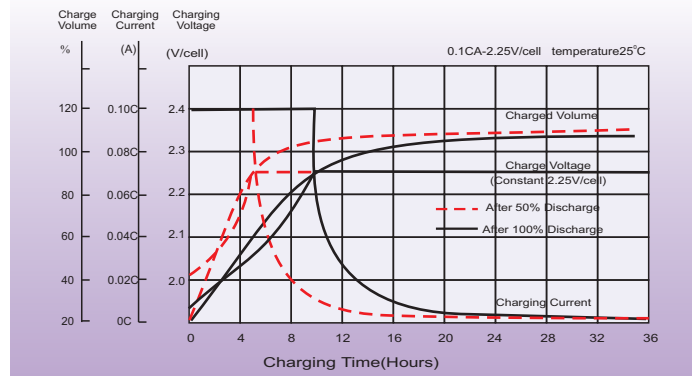
Unit: mm [inches]



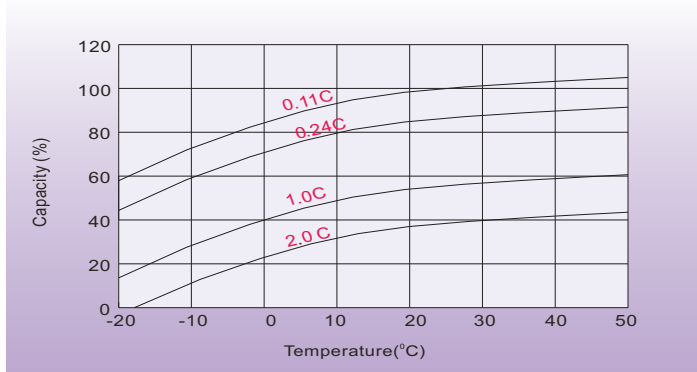
Discharge Characteristics



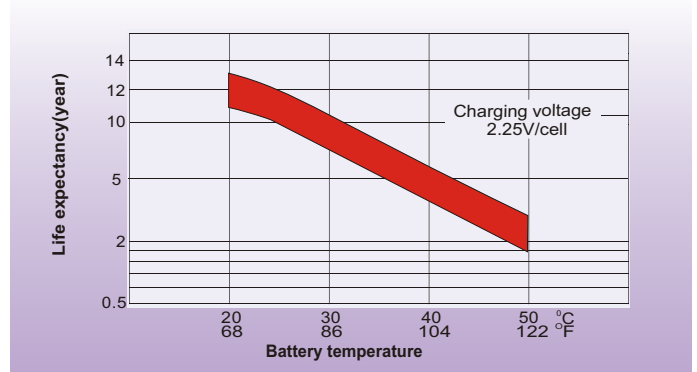
Float Charging Characteristics



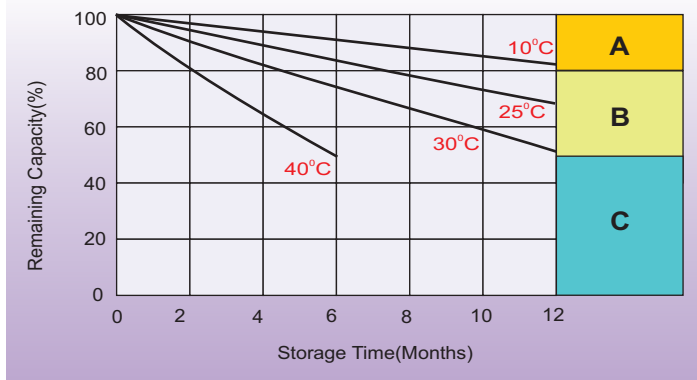
Temperature Effects in Relation to Battery Capacity



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 volatge 2.25V/cell.
 2. Charged for above 20hours at limited current 0.25CA and constant volatge 2.45V/cell.
 3. Charged for 8~10hours 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.