

HPX12290 (12V52.6AH)

Specification

Nominal Voltage	12V
Watts(10min Rate)	289 Watts at 1.60V/cell
Dimension	Length 229 ± 3mm(9.02inches)
	Width 138 ± 2mm(5.43inches)
	Container Height 200 ± 3mm(7.87inches)
	Total Height (with Terminal) 203 ± 3mm(7.99inches)
Approx Weight	Approx 17.3 kg (38.1lbs)
Terminal	T6
Container Material	ABS
Rated Capacity	52.60 AH/5.26A (10hr ,1.80V/cell,25°C/77°F)
	50.64 AH/6.33A (8hr,1.80V/cell,25 °C/77°F)
	47.35 AH/9.47A (5hr,1.75V/cell,25°C/77°F)
	43.80 AH/14.6A (3hr,1.75V/cell,25°C/77°F)
	38.9 AH/38.9A (1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	825A (5s)
Internal Resistance	Approx 5m Ω
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 16.5A.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	163.2	134.8	100.4	84.5	72.8	55.8	40.6	32.5	19.2	13.7	10.8	8.99	7.75	6.16	5.13
1.80V/cell	183.8	160.4	114.2	95.7	80.2	60.0	43.0	34.2	20.0	14.2	11.2	9.28	7.97	6.33	5.26
1.75V/cell	199.0	185.3	126.4	103.4	85.8	62.8	45.0	35.4	20.6	14.6	11.4	9.47	8.13	6.45	5.36
1.70V/cell	214.7	200.9	137.7	110.9	91.2	66.0	46.6	36.6	21.0	15.0	11.7	9.69	8.32	6.59	5.45
1.67V/cell	229.5	217.6	145.5	118.7	96.0	68.3	48.2	37.8	21.6	15.2	11.9	9.88	8.49	6.71	5.56
1.60V/cell	248.0	234.2	155.6	123.8	100.0	70.8	49.9	38.9	22.0	15.5	12.2	10.1	8.73	6.88	5.68

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	313.5	262.3	196.5	166.3	143.9	110.9	81.1	65.0	38.5	27.7	21.9	18.3	15.8	12.6	10.5
1.80V/cell	350.3	308.7	221.1	186.4	157.0	118.1	85.3	68.0	39.9	28.6	22.5	18.8	16.2	12.9	10.8
1.75V/cell	373.7	353.2	242.4	199.6	166.5	122.7	88.3	70.0	41.0	29.2	22.9	19.0	16.4	13.1	10.9
1.70V/cell	406.9	378.4	261.2	211.5	175.2	127.6	90.6	71.8	41.4	29.7	23.3	19.3	16.7	13.3	11.0
1.67V/cell	427.6	406.6	274.0	225.1	183.2	131.4	93.3	73.7	42.3	30.0	23.6	19.6	16.9	13.4	11.2
1.60V/cell	456.0	432.7	289.8	232.3	189.0	134.8	95.6	75.2	42.7	30.4	24.0	20.0	17.2	13.6	11.3

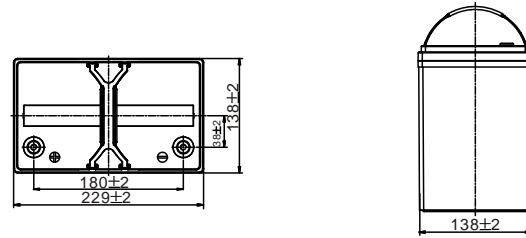
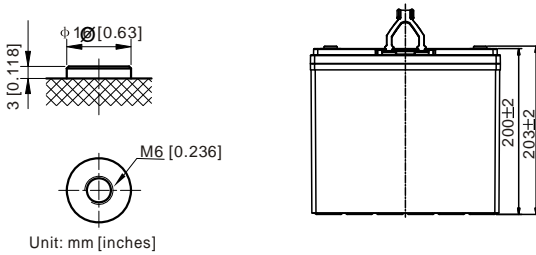
Specifications subject to change without notice.



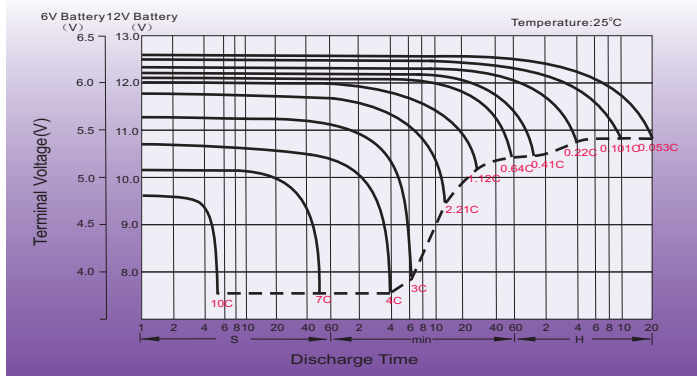
Dimensions

T6 Terminal

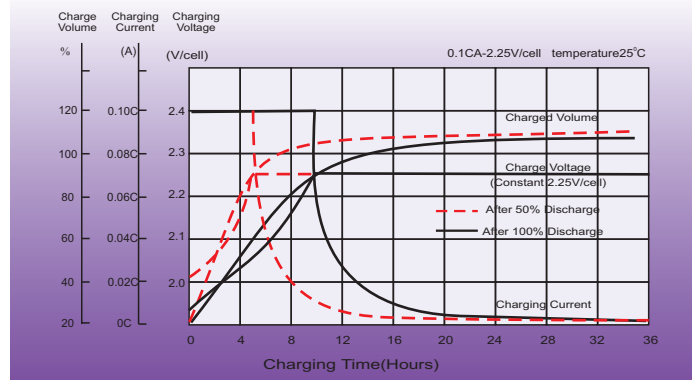
Unit: mm [inches]



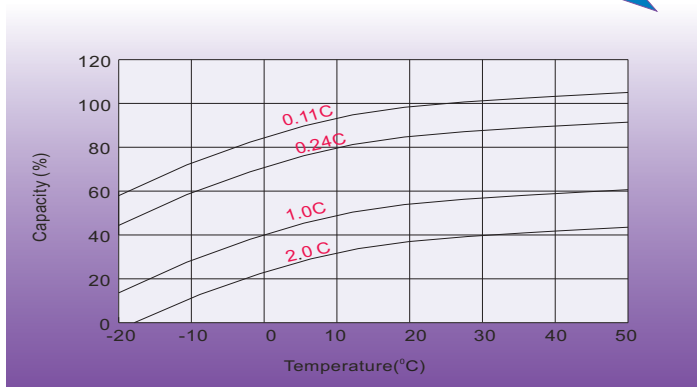
Discharge Characteristics



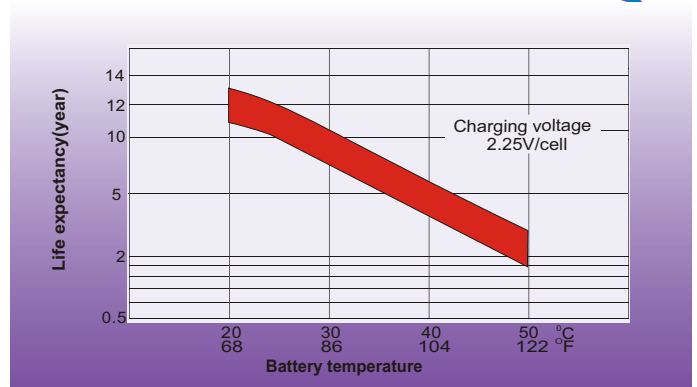
Float Charging Characteristics



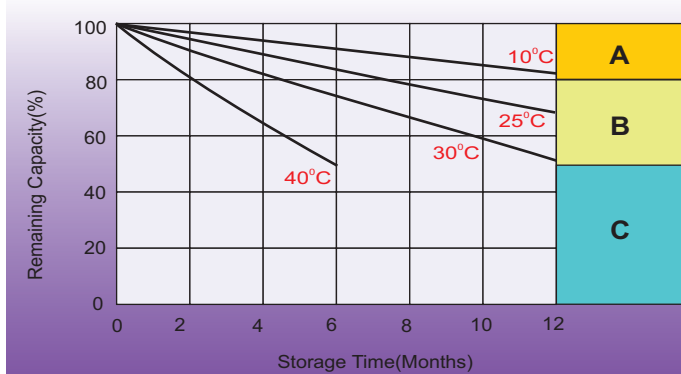
Temperature Effects in Relation to Battery Capacity



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.