BP6-20 (6V20.0AH)

Specification

Nominal Voltage	6V
Nominal Capacity(20HR)	20.0AH
Dimension	Length 157±2mm (6.18 inches) Width 83±1mm (3.27 inches) Container Height 125±2mm (4.92 inches) Total Height (with Terminal) 125±2mm (4.92 inches)
Approx Weight	Approx 3.21 Kg (7.08 lbs)
Terminal	T3-A
Container Material	ABS
Rated Capacity	20.0AH/1.00A (20hr ,1.80V/cell,25°C/77°F) 18.6AH/1.86A (10hr,1.80V/cell,25°C/77°F) 16.95 AH/3.39A (5hr,1.75V/cell,25°C/77°F) 14.88AH/4.96A (3hr,1.75V/cell,25°C/77°F) 12.5 AH/12.5A (1hr,1.60V/cell,25°C/77°F)
Max. Discharge Current	270A (5s)
Internal Resistance	Approx 9.0mΩ
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 6A.Voltage 7.2V~7.5V at 25°C(77°F)Temp. Coefficient -15mV/°C
Standby Use	No limit on Initial Charging Current Voltage 6.75V~6.9V at 25°C(77°F)Temp. Coefficient -10mV/°C
Capacity affected by Temperature	40°C (104°F) 103% 25°C (77°F) 100% 0°C (32°F) 86%
Self Discharge	General purpose 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.
Life expectancy	3~5 years at 25°C with charge voltage of 2.25V/cell

Applications

- *All purpose*
- *Uninterruptable Power Supply (UPS)*
- *Electric Power System (EPS)*
- *Emergency backup power supply*
- *Emergency light*
- *Railway signal*
- *Aircraft signal*
- *Alarm and security system*
- *Electronic apparatus and equipment*
- *Communication power supply*
- *DC power supply*
- *Auto control system*

MH45680 ISO14001 Intertek ETL SEMKO

ISO9001

Comform to:
IEC60896-21&22 and/or IEC61427

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

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	25.3	20.9	18.4	15.0	11.7	9.72	5.97	4.49	3.70	3.14	2.72	2.16	1.80	0.990
1.80V/cell	30.4	24.6	21.0	16.8	12.9	10.5	6.40	4.80	3.93	3.30	2.84	2.24	1.86	1.00
1.75V/cell	34.8	27.3	23.2	18.0	13.8	11.1	6.67	4.96	4.03	3.39	2.92	2.30	1.91	1.01
1.70V/cell	38.9	30.1	25.1	19.2	14.5	11.6	6.90	5.09	4.12	3.46	2.98	2.34	1.94	1.03
1.65V/cell	42.1	32.2	26.9	20.2	15.1	12.0	7.12	5.23	4.23	3.54	3.04	2.37	1.96	1.04
1.60V/cell	45.6	34.6	28.4	21.3	15.7	12.5	7.30	5.35	4.33	3.62	3.11	2.42	1.99	1.05

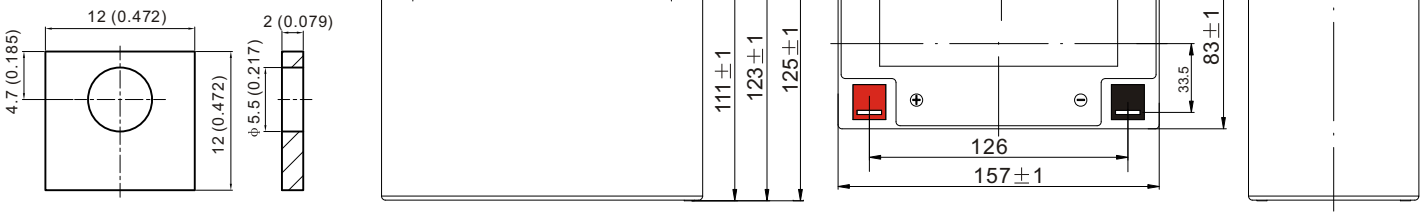
Constant Power Discharge (Watts/cell) at 25°C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	47.4	39.3	34.6	28.6	22.5	18.8	11.6	8.76	7.22	6.15	5.34	4.26	3.57	1.96
1.80V/cell	55.6	45.4	39.3	31.7	24.5	20.2	12.3	9.30	7.64	6.43	5.55	4.41	3.68	1.98
1.75V/cell	63.1	50.0	43.0	33.7	26.1	21.2	12.8	9.58	7.80	6.59	5.69	4.52	3.76	2.00
1.70V/cell	69.6	54.6	46.3	35.7	27.2	22.1	13.2	9.80	7.97	6.73	5.81	4.58	3.82	2.03
1.65V/cell	74.3	57.8	49.1	37.3	28.2	22.7	13.6	10.0	8.14	6.85	5.90	4.64	3.86	2.05
1.60V/cell	79.2	61.0	51.0	38.8	29.1	23.5	13.9	10.2	8.32	6.97	6.02	4.73	3.92	2.06

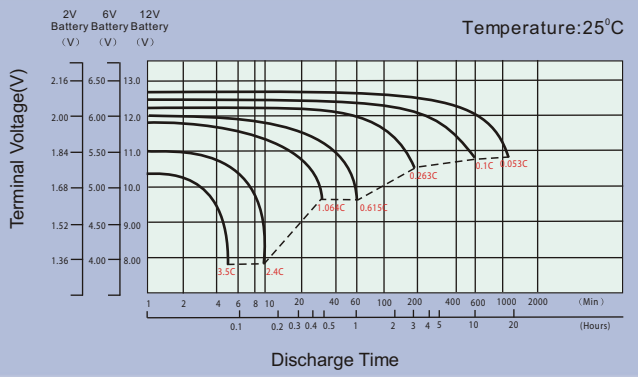
Dimensions

T3-A Terminal

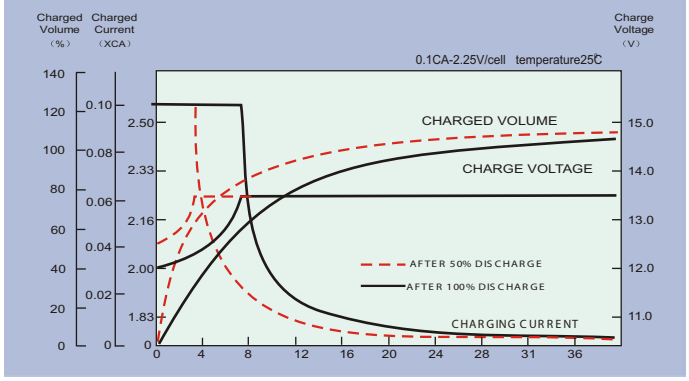
Unit: mm [inches]



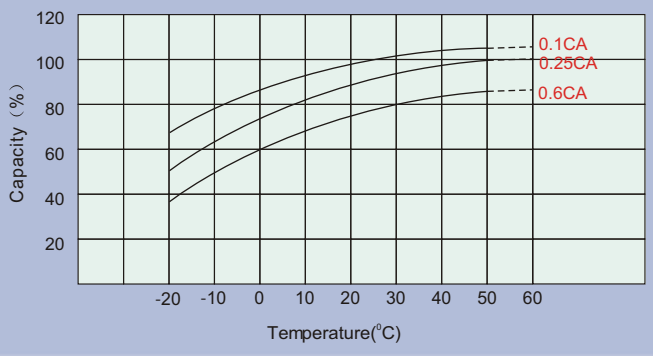
Discharge Characteristics



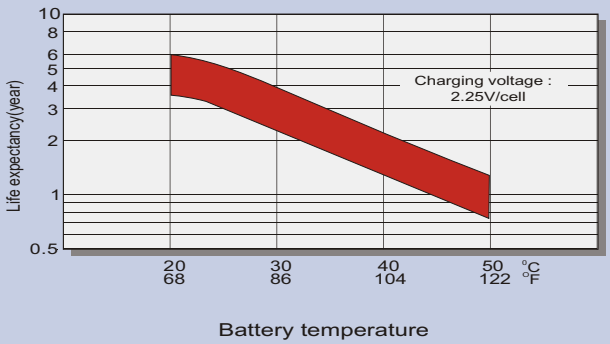
Float Charging Characteristics



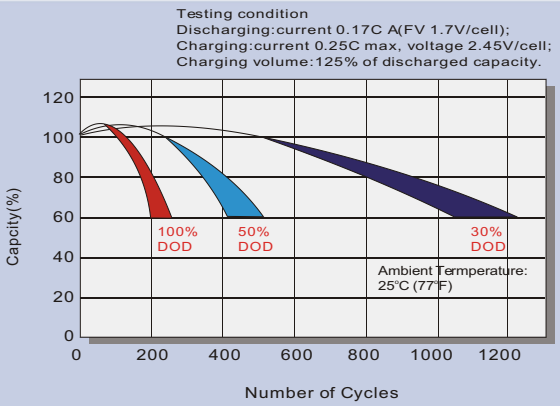
Temperature Effects in Relation to Battery Capacity



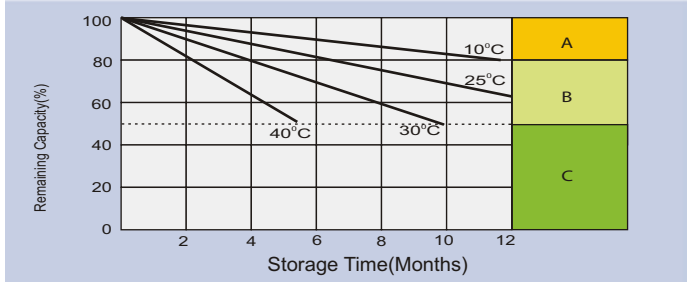
Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



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 limted current 0.25CA and constant voltage 2.25V/cell.
2.Charged for above 20 hours at limted current 0.25CA and constant voltage 2.45V/cell.
3.Charged for 8 ~10hours at limted current 0.05 CA.

C Supplementary charge may often fail to recover the capacity. The battery should never be left standing till this is reached.