# \*HILTCON security



- 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

### **B12V12A**

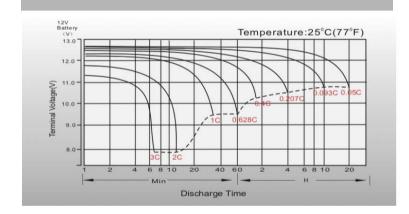
CONSTRUCTION									
Nominal Voltage	12V								
Nominal Capacity(10HR)	12.0AH								
Dimensions	Length Width Container Height Total Height (with Terminal)	151±2mm (5.95 inches) 98±1mm (3.86 inches) 95±1mm (3.74 inches) 101±2mm (3.98 inches)							
Approx Weight	Approx 3.50 kg (7.72lbs)								
Terminal	т2								
Container Material	ABS								
Rated Capacity	12.0 AH/0.60A 11.2 AH/1.12A 10.2 AH/2.04A 9.2 AH/3.06A 7.54AH/7.54A	(20hr,1.80V/cell,25°C/77°F) (10hr,1.80V/cell,25°C/77°F) (5hr,1.75V/cell,25°C/77°F) (3hr,1.75V/cell,25°C/77°F) (1hr,1.60V/cell,25°C/77°F							
Max. Discharge Current	180A (5s)								
Internal Resistance	Approx 14mΩ								
Operating Temp.Range	Discharge Charge Storage	-15~50°C (5~122°F) 0~40°C (32~104°F) -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) 25°C (77°F) 0°C ( 32°F)	103% 100% 86%							
Self discharge	Leoch LP 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 intervolvill be shorter.								

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	22.9	15.2	12.5	11.0	9.0	7.04	5.83	3.58	2.70	2.22	1.88	1.63	1.30	1.08	0.594
1.80V/cell	27.4	18.2	14.7	12.6	10.1	7.73	6.31	3.84	2.88	2.36	1.98	1.70	1.34	1.12	0.600
1.75V/cell	32.8	20.9	16.4	13.9	10.8	8.27	6.67	4.00	2.98	2.42	2.03	1.75	1.38	1.14	0.606
1.70V/cell	38.1	23.3	18.0	15.1	11.5	8.67	6.96	4.14	3.05	2.47	2.08	1.79	1.40	1.16	0.617
1.65V/cell	42.0	25.3	19.3	16.2	12.1	9.1	7.20	4.27	3.14	2.54	2.12	1.82	1.42	1.18	0.625
1.60V/cell	46.3	27.4	20.8	17.1	12.8	9.4	7.49	4.38	3.21	2.60	2.17	1.86	1.45	1.20	0.629

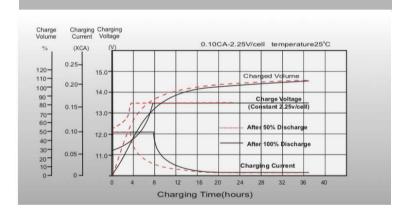
Constant Power Discharge (Watts/cell) at 25 °C (77°F)															
F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	42.6	28.4	23.6	20.8	17.1	13.5	11.3	6.96	5.26	4.33	3.69	3.20	2.56	2.14	1.18
1.80V/cell	49.5	33.4	27.2	23.6	19.0	14.7	12.1	7.41	5.58	4.59	3.86	3.33	2.65	2.21	1.19
1.75V/cell	58.8	37.9	30.0	25.8	20.2	15.7	12.7	7.69	5.75	4.68	3.95	3.42	2.71	2.26	1.20
1.70V/cell	67.3	41.7	32.7	27.8	21.4	16.3	13.2	7.94	5.88	4.78	4.04	3.48	2.75	2.29	1.22
1.65V/cell	73.1	44.6	34.7	29.5	22.4	16.9	13.6	8.17	6.02	4.88	4.11	3.54	2.79	2.32	1.23
1.60V/cell	79.2	47.5	36.6	30.6	23.3	17.5	14.1	8.33	6.13	4.99	4.18	3.61	2.84	2.35	1.24

Specifications subject to change without notice.

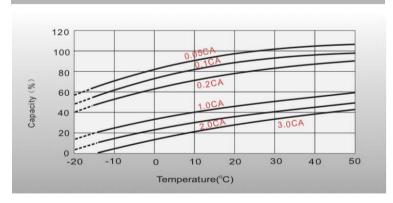
### **Discharge Characteristics**



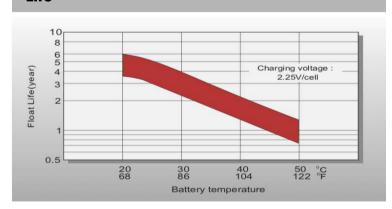
### Float Charging Characteristics



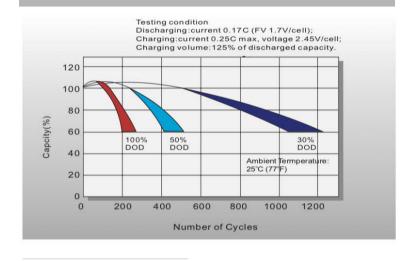
# Temperature Effects in Relation to Battery Capacity



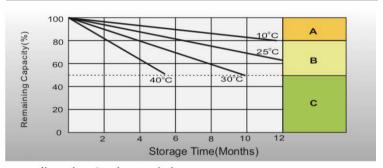
## Effect of Temperature on Long Term Float Life



### Cycle Life in Relation to Depth of Discharge



#### **Self Discharge Characteristics**



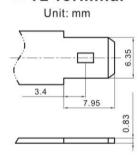
No supplementary charge required (Carry out supplementary charge before use if 100% capacity is required.)

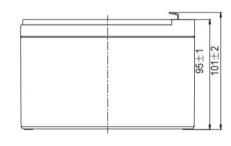
Supplementary charge required before use.Optional charging way as below: 1.Charged for above 3 days at limted current 0.25CA and constant volatge 2.25V/cell. 2.Charged for above 20hours at limted current 0.25CA and constant volatge 2.45V/cell. 3.Charged for 8~10hours at limted current 0.05CA.

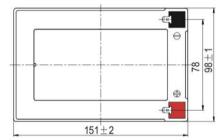
Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.

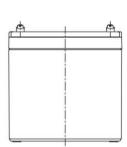
#### **Dimension**

























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