



B12V40A

Batteria al piombo 12V 40Ah, Cobat incluso

Specification

Nomial Voltage	12V	
Nomial Capacity(10HR)	40.0AH	
Dimension	Length	255±2mm (10.04 inches)
	Width	97±1mm (3.82 inches)
	Container Height	203±2mm (7.99 inches)
	Total Height (with Terminal)	203±2mm (7.99 inches)
Approx Weight	Approx 13.0 kg (28.67lbs)	
Terminal	T7	
Container Material	ABS	
Rated Capacity	41.6 AH/4.08A	(20hr, 1.80V/cell, 25°C/77°F)
	40.0 AH/4.00A	(10hr, 1.80V/cell, 25°C/77°F)
	31.5 AH/6.89A	(5hr, 1.75V/cell, 25°C/77°F)
	31.2 AH/10.4A	(3hr, 1.75V/cell, 25°C/77°F)
	24.4 AH/24.4A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	480A (5s)	
Internal Resistance	Approx 9mΩ	
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 12.0A. 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	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 interval will 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	68.5	53.8	45.8	38.3	30.4	23.0	18.9	12.0	9.50	7.76	6.25	5.44	4.42	3.78	2.06
1.80V/cell	91.9	68.8	55.3	45.3	35.9	26.8	21.1	13.1	10.2	8.28	6.72	5.84	4.69	4.00	2.08
1.75V/cell	103.6	75.6	60.4	48.7	37.3	27.8	22.1	13.6	10.4	8.47	6.88	6.00	4.77	4.04	2.10
1.70V/cell	114.1	82.4	64.5	51.2	38.8	28.9	22.8	14.1	10.7	8.69	7.06	6.12	4.84	4.08	2.14
1.65V/cell	125.8	88.9	68.6	54.4	40.9	29.6	23.6	14.5	11.2	8.99	7.26	6.26	4.91	4.16	2.17
1.60V/cell	138.8	96.5	73.3	57.9	43.2	30.9	24.4	15.0	11.5	9.27	7.50	6.40	4.96	4.21	2.18

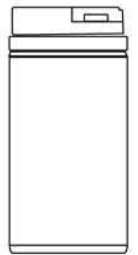
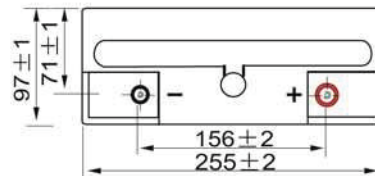
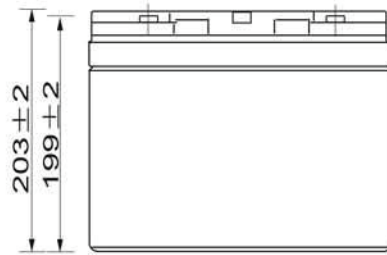
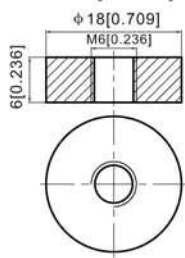
Constant Current Discharge (watts/cell) at 25° C (77°F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	125.2	99.4	85.4	72.2	58.0	44.3	36.4	23.3	18.5	15.2	12.3	10.7	8.73	7.47	4.08
1.80V/cell	166.2	125.5	101.8	84.1	67.4	51.1	40.5	25.3	19.8	16.1	13.1	11.4	9.23	7.90	4.11
1.75V/cell	183.4	135.7	109.8	89.6	69.4	52.5	42.2	26.1	20.1	16.4	13.4	11.7	9.36	7.97	4.15
1.70V/cell	196.4	144.6	115.6	93.4	71.8	54.4	43.4	27.1	20.6	16.8	13.7	11.9	9.49	8.05	4.23
1.65V/cell	213.5	154.6	122.0	98.5	75.1	55.3	44.5	27.7	21.4	17.3	14.0	12.2	9.61	8.20	4.28
1.60V/cell	230.0	164.0	128.3	103.8	78.8	57.3	45.9	28.5	22.0	17.8	14.5	12.4	9.69	8.27	4.29

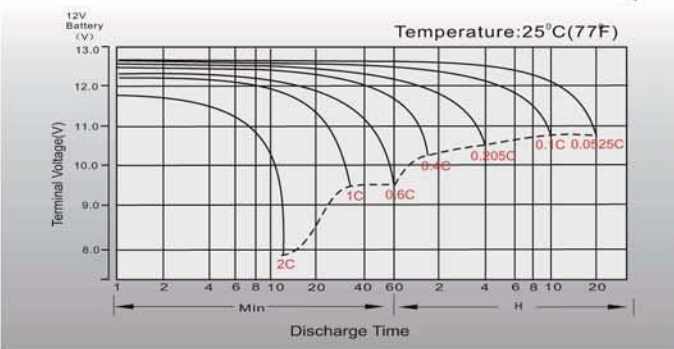
DIMENSIONS

T7 Terminal

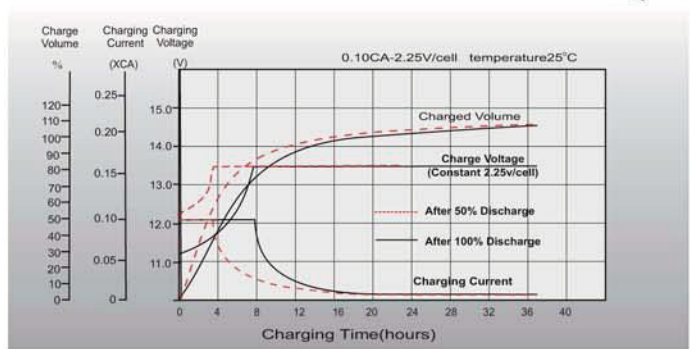
Unit: mm [inches]



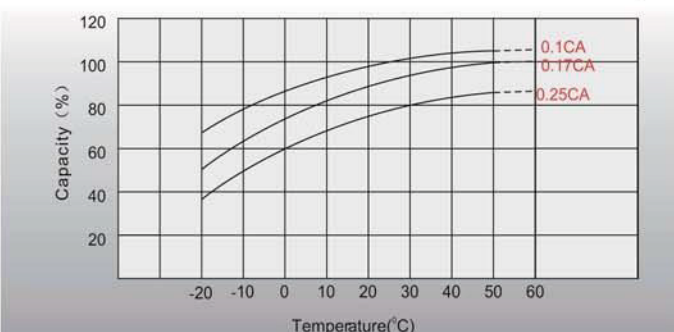
Discharge Characteristics



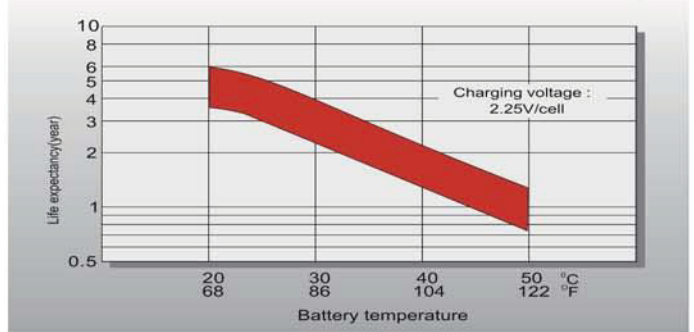
Float Charging Characteristics



Temperature Effects in Relation to Battery Capacity

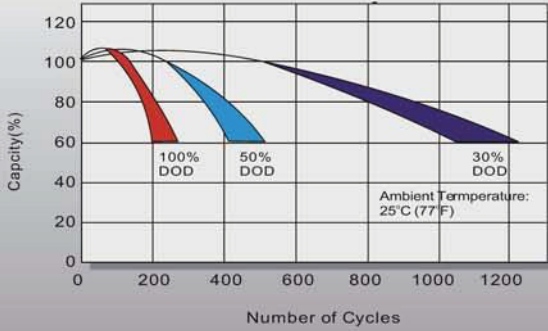


Temperature Effects on long term float life

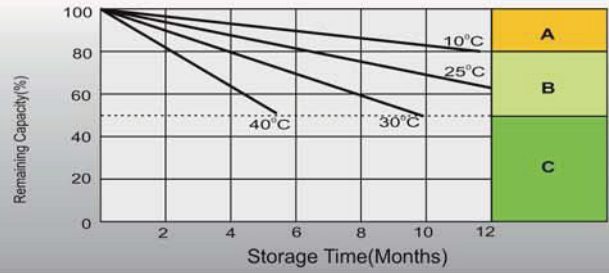


Cycle life in relation to depth of discharge

Testing condition
 Discharging: current 0.17C (FV 1.7V/cell);
 Charging: current 0.25C max, voltage 2.45V/cell;
 Charging volume: 125% of discharged capacity.



Self Discharge Of 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.

Hiltron Land S.r.l.

Strada Provinciale di Caserta, 218 80144 - Napoli - Italy
 Tel: (+39) 081.185.39.000 Fax: (+39) 081.185.39.016
www.hiltronsecurity.net

