

Specification

Nominal Voltage	12V	
Nominal Capacity(20HR)	30.0AH	
Dimension	Length	195±2mm (7.68 inches)
	Width	130±2mm (5.12 inches)
	Container Height	164±2mm (6.46 inches)
	Total Height (with Terminal)	167±2mm (6.57 inches)
Approx Weight	Approx 10.7 kg (23.59lbs)	
Terminal	T6	
Container Material	ABS	
Rated Capacity	30.0 AH/1.50A	(20hr , 1.80V/cell,25°C/77°F)
	27.6 AH/2.76A	(10hr, 1.80V/cell,25°C/77°F)
	24.25 AH/4.85A	(5hr, 1.75V/cell,25°C/77°F)
	21.36 AH/7.12A	(3hr, 1.75V/cell,25°C/77°F)
	17.8 AH/17.8A	(1hr, 1.60V/cell,25°C/77°F)
Max. Discharge Current	300A (5s)	
Internal Resistance	Approx 14.6mΩ	
Operating Temp.Range	Discharge : -20~55°C (-4~131°F)	
	Charge : 0~40°C (32~104°F)	
	Storage : -20~ 50°C (-4~122°F)	
Nominal Operating Temp. Range	25±3°C (77±5°F)	
Cycle Use	Initial Charging Current less than 6.0A.	
	Voltage 14.1V~14.4V (14.1V is optimum) at 25°C(77°F).	
Standby Use	No limit on Initial Charging Current .Voltage 13.5V~13.8V (13.5V is optimum) at 25°C(77°F) . Coefficient -18mV/°C	
Capacity affected by Temperature	40°C (104°F)	103%
	25°C (77°F)	100%
	0°C (32°F)	86%
Self Discharge	GEL series batteries may be stored for up to 9 months at 25°C(77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.	



Typical Applications

- ◆ Railway and marine systems
- ◆ Electric tools
- ◆ Vehicle in place of walking
- ◆ Lawn mowers
- ◆ Golf trolleys and golfcart
- ◆ Electric toys
- ◆ Portable power
- ◆ Wheelchairs
- ◆ Medical equipments.



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	36.5	31.0	27.0	21.0	16.0	13.3	8.36	6.30	5.16	4.42	3.84	3.10	2.63	1.46
1.80V/cell	44.9	36.8	31.7	23.9	17.9	14.8	9.09	6.80	5.53	4.69	4.07	3.26	2.76	1.50
1.75V/cell	50.5	41.0	34.7	25.8	19.1	15.7	9.53	7.12	5.75	4.85	4.20	3.34	2.80	1.52
1.70V/cell	56.3	44.6	37.0	27.1	20.0	16.4	10.0	7.36	5.91	4.98	4.31	3.42	2.85	1.54
1.67V/cell	60.3	47.0	38.9	28.4	20.7	17.0	10.3	7.58	6.05	5.10	4.40	3.47	2.90	1.56
1.60V/cell	65.8	50.4	41.6	30.0	21.9	17.8	10.6	7.82	6.23	5.24	4.50	3.52	2.94	1.58

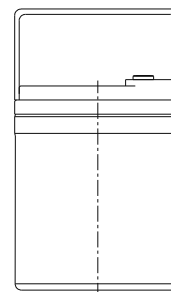
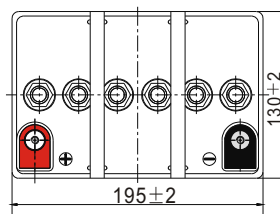
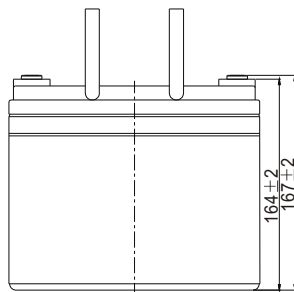
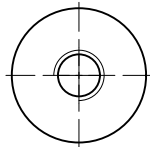
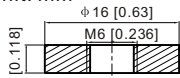
Constant Power Discharge (Watts) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	68.6	58.6	51.6	40.3	30.9	25.9	16.3	12.3	10.1	8.70	7.58	6.14	5.22	2.92
1.80V/cell	83.1	68.6	59.6	45.5	34.4	28.7	17.6	13.2	10.8	9.21	8.02	6.46	5.48	2.99
1.75V/cell	92.0	75.5	64.6	48.8	36.5	30.2	18.4	13.8	11.2	9.49	8.26	6.61	5.56	3.03
1.70V/cell	101.1	81.3	68.4	51.0	38.0	31.4	19.3	14.3	11.5	9.73	8.47	6.75	5.65	3.07
1.67V/cell	107.1	84.8	71.3	52.9	39.2	32.3	19.7	14.6	11.7	9.95	8.61	6.84	5.73	3.10
1.60V/cell	114.8	89.7	75.5	55.5	41.1	33.7	20.3	15.0	12.0	10.2	8.79	6.92	5.81	3.13

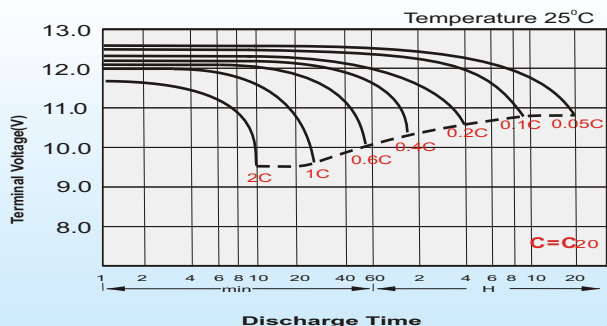
Dimensions

T6 Terminal

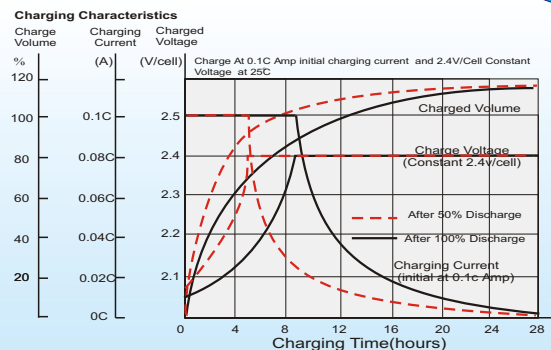
Unit: mm



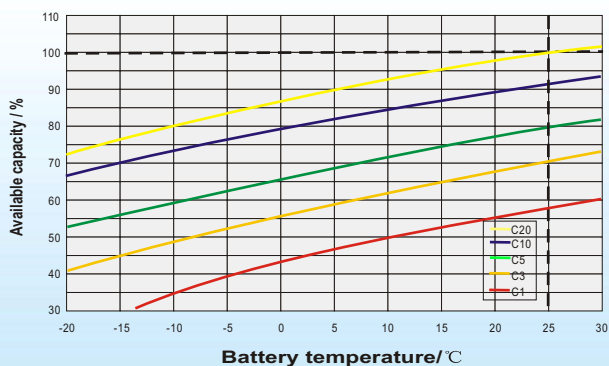
Discharge Characteristics



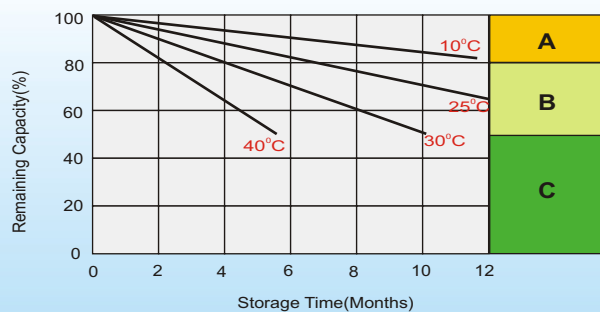
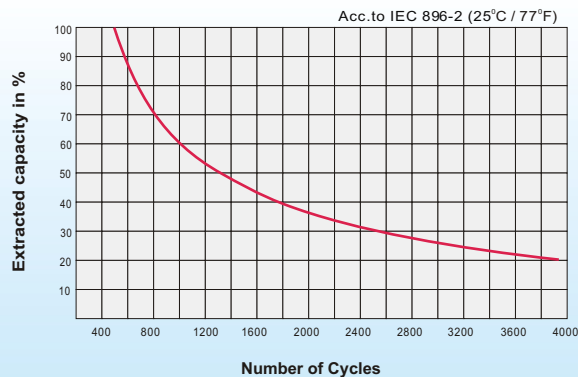
Charging Characteristics (cycle use)



Temperature Effects in Relation to Battery Capacity



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 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.

Sales Office

Sweden

Cell tech AB,
Äggelundavägen 2, 175 12 Järfälla, Sweden
TEL: +41 8 445 7870
FAX: +41 8 445 7878
E-mail: order@celltech.se
www.celltech.se

Finland and Baltic countries

Celltech oy
Höyläamitie 11A, 00380 Helsinki, Finland
TEL: +358 (0)207 999 140
FAX: +358 (0)207 999 141
E-mail: info@celltech.fi
www.celltech.fi

Deamark

Celliech A/S
Lejrvej 25, 3500 Værløse Denmark
TEL: +45 7025 2201
FAX: +45 7025 2202
E-mail: info@celliech.dk
www.celliech.dk