

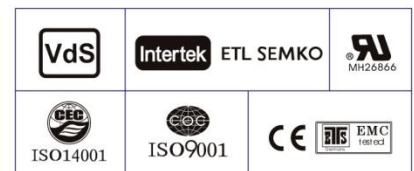
Specification

Nominal Voltage	12V	
Nominal Capacity	3.5 AH	
Dimension	Length	134 ± 1mm (5.28 inches)
	Width	67 ± 1mm (2.64 inches)
	Container Height	60.5 ± 1mm (2.38 inches)
	Total Height (with Terminal)	66.5 ± 1mm (2.62 inches)
Approx Weight	Approx 1.35 Kg (2.98lbs)	
Terminal	T1	
Container Material	ABS	
Rated Capacity	3.44 AH/0.172A	(20hr, 1.80V/cell, 25°C/77°F)
	3.20AH/0.32A	(10hr, 1.80V/cell, 25°C/77°F)
	2.80 AH/0.561A	(5hr, 1.75V/cell, 25°C/77°F)
	2.54 AH/0.848A	(3hr, 1.75V/cell, 25°C/77°F)
	2.07 AH/2.07A	(1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	52.5A (5s)	
Internal Resistance	Approx 45.0mΩ	
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 1.05A. Voltage 14.4V~15.0V at 25°C(77°F)Temp. Coefficient -30mV/°C	
	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	LPC 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

- ◆ Electric tools
- ◆ Vehicle in place of walking
- ◆ Lawn mowers
- ◆ Golf trolleys and golfcart
- ◆ Portable apparatus, lights and instruments;
- ◆ Electric toys
- ◆ Illumination light
- ◆ Fire alarms
- ◆ 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	4.69	3.94	3.44	2.48	1.97	1.60	0.99	0.774	0.627	0.509	0.444	0.363	0.302	0.170
1.80V/cell	5.99	4.76	4.07	2.93	2.29	1.79	1.08	0.833	0.669	0.547	0.476	0.385	0.320	0.172
1.75V/cell	6.58	5.20	4.38	3.04	2.38	1.87	1.12	0.848	0.684	0.561	0.490	0.391	0.323	0.173
1.70V/cell	7.17	5.55	4.60	3.16	2.47	1.93	1.17	0.872	0.702	0.575	0.500	0.397	0.326	0.176
1.65V/cell	7.74	5.91	4.89	3.33	2.53	2.00	1.20	0.909	0.726	0.591	0.511	0.403	0.333	0.179
1.60V/cell	8.40	6.32	5.21	3.52	2.64	2.07	1.24	0.937	0.749	0.611	0.522	0.407	0.337	0.180

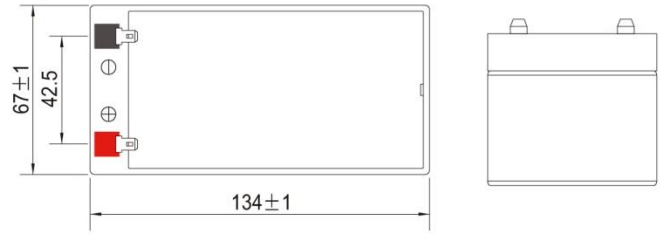
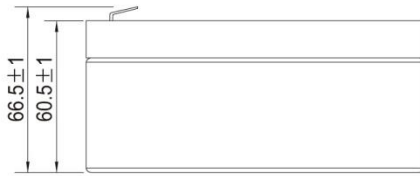
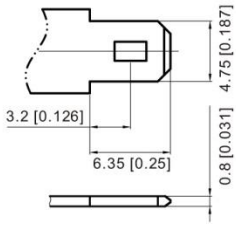
Constant Power Discharge (Watts/cell) at 25 °C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	8.74	7.43	6.57	4.76	3.81	3.10	1.93	1.51	1.23	1.00	0.88	0.718	0.598	0.340
1.80V/cell	11.0	8.85	7.64	5.55	4.39	3.45	2.10	1.62	1.30	1.07	0.94	0.760	0.633	0.343
1.75V/cell	12.0	9.6	8.15	5.74	4.54	3.60	2.17	1.64	1.33	1.10	0.96	0.772	0.639	0.345
1.70V/cell	12.9	10.1	8.52	5.95	4.71	3.70	2.25	1.69	1.36	1.12	0.98	0.783	0.645	0.352
1.65V/cell	13.8	10.7	9.01	6.25	4.81	3.82	2.31	1.75	1.41	1.15	1.00	0.794	0.658	0.356
1.60V/cell	14.7	11.3	9.5	6.53	4.96	3.92	2.37	1.80	1.44	1.18	1.02	0.801	0.664	0.357

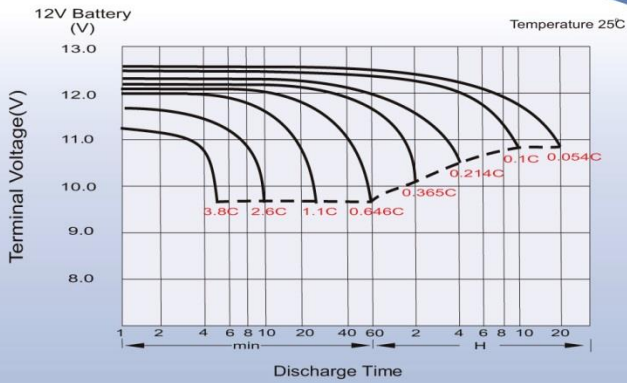
Dimensions

T1 Terminal

Unit: mm [inches]

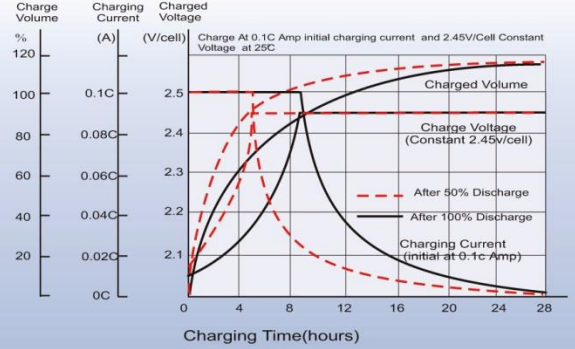


Discharge Characteristics

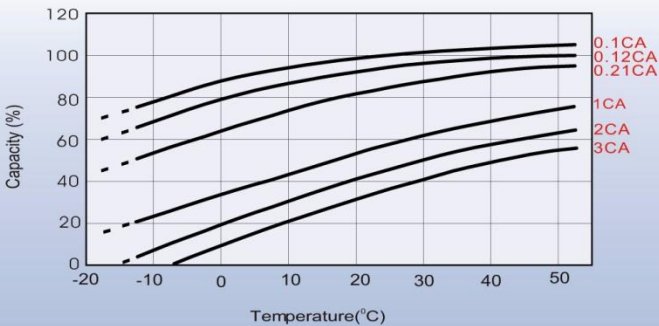


Charging Characteristics (cycle use)

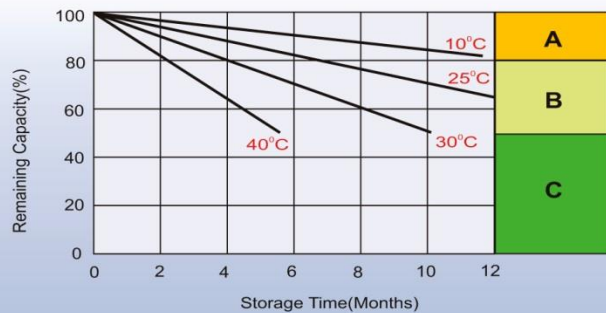
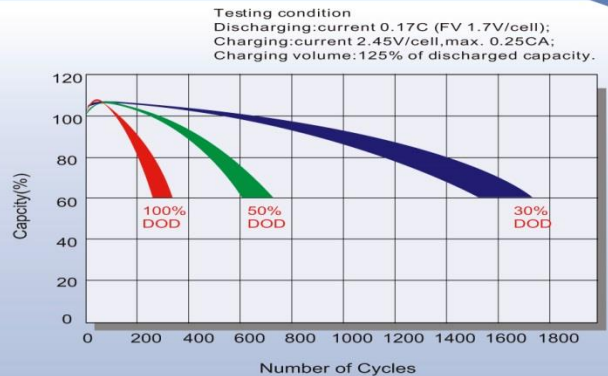
Charging Characteristics



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 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.

Sales Office

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GACELL A/S
SLETTEN 17
DK - 7500 HOLSTEBRO

TEL. 961 02 961
MAIL: SALG@GACELL-POWER.DK
WEB: WWW.GACELL-POWER.DK