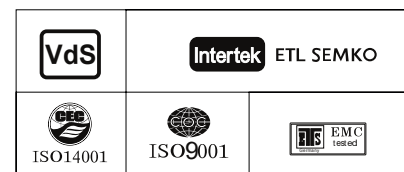


Specification	
Nominal Voltage	12V
Nominal Capacity(10HR)	14.0AH
Dimension	Length 151.5 ± 1mm (5.96 inches)
	Width 99.5 ± 1mm (3.92 inches)
	Container Height 97 ± 1mm (3.82 inches)
	Total Height (with Terminal) 101 ± 1mm (3.98 inches)
Approx Weight	Approx 4.20Kg (9.26lbs)
Terminal	T15
Container Material	ABS
Rated Capacity	13.9AH/0.70A (20hr, 1.80V/cell, 25°C/77°F)
	13.0AH/1.30A (10hr, 1.80V/cell, 25°C/77°F)
	11.4AH/2.28A (5hr, 1.75V/cell, 25°C/77°F)
	10.3AH/3.45A (3hr, 1.75V/cell, 25°C/77°F)
	8.40AH/8.40A (1hr, 1.60V/cell, 25°C/77°F)
Max. Discharge Current	195A(5s)
Internal Resistance	Approx 14.0mΩ
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 3.9A. 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
Standby Use	
Capacity affected by Temperature	40°C (104°F) 103%
	25°C (77°F) 100%
	0°C (32°F) 86%
Self Discharge	MKC powerseries 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
- ◆ Lawnmowers
- ◆ Golf trolleys and golf cart
- ◆ 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	190	160	140	10.1	8.00	6.49	4.03	3.14	2.55	2.07	1.81	1.47	1.23	0.690
1.80V/cell	243	194	165	11.9	9.30	7.27	4.40	3.38	2.72	2.22	1.94	1.56	1.30	0.697
1.75V/cell	267	211	178	12.3	9.65	7.61	4.56	3.45	2.78	2.28	1.99	1.59	1.31	0.703
1.70V/cell	291	226	187	12.8	10.0	7.85	4.75	3.54	2.85	2.34	2.03	1.61	1.33	0.716
1.65V/cell	314	240	199	13.5	10.3	8.11	4.88	3.69	2.95	2.40	2.07	1.64	1.35	0.725
1.60V/cell	341	257	212	14.3	10.7	8.40	5.04	3.81	3.04	2.48	2.12	1.65	1.37	0.729

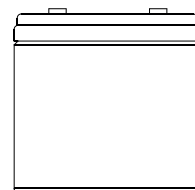
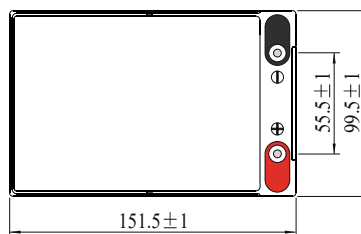
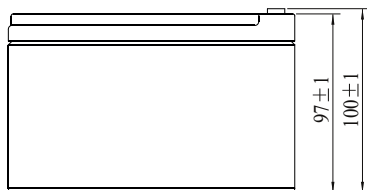
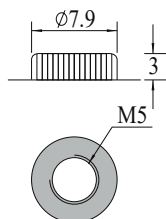
Constant Power Discharge (Watts) at 25° C (77°F)

F.V/Time	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	355	302	267	194	155	126	7.86	6.14	4.99	4.06	3.57	2.91	2.43	1.381
1.80V/cell	448	359	310	226	178	140	8.52	6.58	5.30	4.35	3.81	3.09	2.57	1.392
1.75V/cell	486	389	331	233	184	146	8.81	6.68	5.41	4.46	3.91	3.14	2.60	1.404
1.70V/cell	522	412	346	242	191	150	9.14	6.85	5.54	4.56	3.98	3.18	2.62	1.429
1.65V/cell	560	435	366	254	195	155	9.37	7.12	5.72	4.68	4.07	3.23	2.67	1.445
1.60V/cell	597	460	386	265	202	159	9.63	7.30	5.87	4.81	4.15	3.25	2.70	1.451

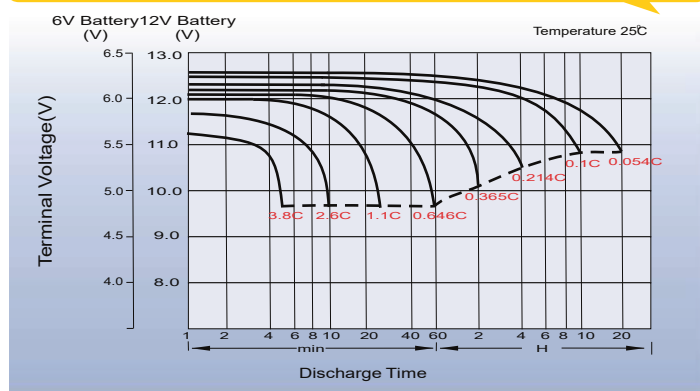
Dimensions

T1 5 Terminal

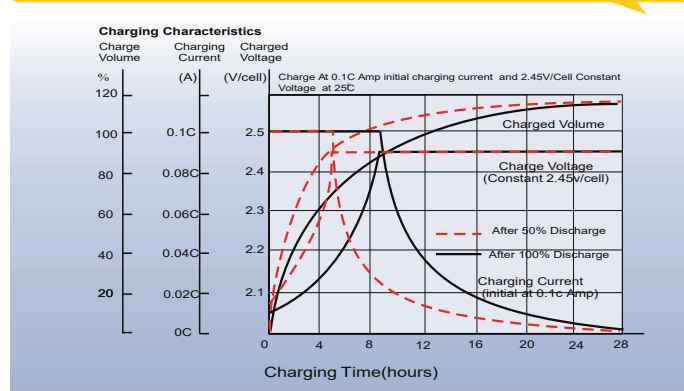
Unit: mm [inches]



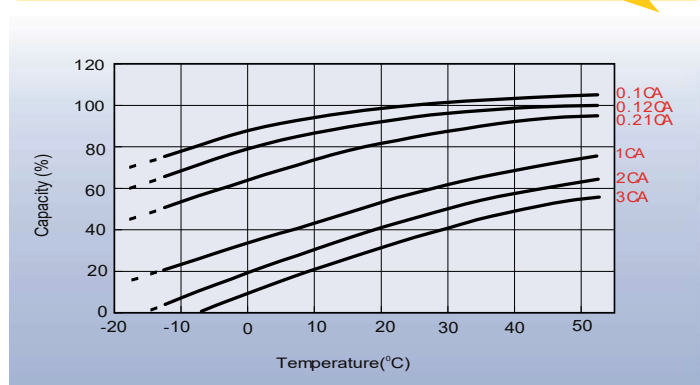
Discharge Characteristics



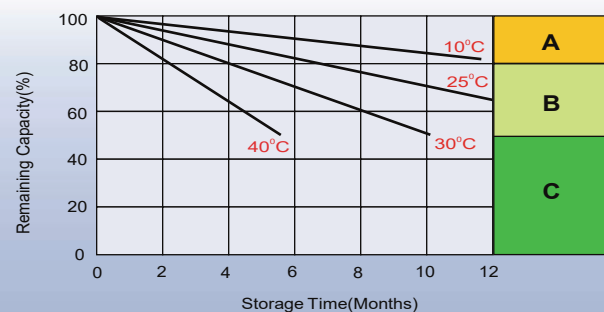
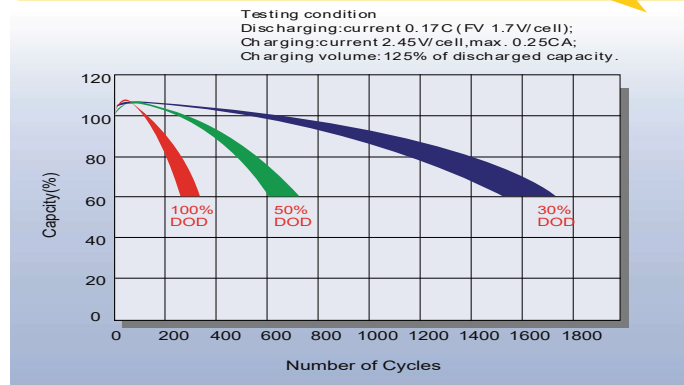
Charging Characteristics (cycle use)



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 ways as below:
 - Charged for above 3 days at limited current 0.25C A and constant voltage 2.25V / cell.
 - Charged for above 20 hours at limited current 0.25CA and constant voltage 2.45V cell.
 - Charged for 8~10 hours at limited current 0.05C A.
- C** Supplementary charge may often fail to recover the capacity.
The battery should never be left standing till this is reached.