

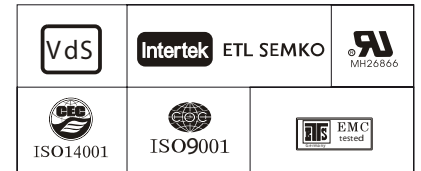
Specification

Nominal Voltage	12V
Nominal Capacity(20HR)	7AH
Dimensions	Length 151±2mm (5.94 inches)
	Width 65±1mm (2.54 inches)
	Container Height 93.5±1mm (3.68 inches)
	Total Height (with Terminal) 99±1mm (3.90 inches)
Approx Weight	Approx 1.9kg
Terminal	T1 Faston 6.3 mm
Container Material	ABS
Rated Capacity	6.50 AH/0.325A (20hr, 1.80V/cell, 25 °C/77 °F)
	6.05 AH/0.605A (10hr, 1.80V/cell, 25 °C/77 °F)
	5.55 AH/1.11A (5hr, 1.75V/cell, 25 °C/77 °F)
	4.98AH/1.66A (3hr, 1.75V/cell, 25 °C/77 °F)
	4.08 AH/4.08A (1hr, 1.60V/cell, 25 °C/77 °F)
Max. Discharge Current	97.5A (5s)
Internal Resistance	Approx 30m Ω
Operating Temperature	Discharge : -15 ~ 50°C (5 ~ 122°F)
	Charge : 0 ~ 40°C (32 ~ 104°F)
	Storage : -15 ~ 40°C (5 ~ 104°F)
Nominal Operating Temperature	25 ± 3°C (77 ± 5°F)
Cycle Use	Initial Charging Current less than 1.95A. 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	40°C (104°F) 103%
Capacity affected by Temperature	25°C (77°F) 100%
	0°C (32°F) 86%
	MKC series batteries may be stored for up to 6 months at 25°C (77°F) and then a refreshing charge is required. For higher temperatures the time interval will be shorter.
Self Discharge	



Applications

- ◆ 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



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	12.4	9.51	7.87	6.81	5.26	3.88	3.27	1.93	1.51	1.23	1.00	0.870	0.702	0.586	0.322
1.80V/cell	16.6	12.1	9.51	8.05	6.21	4.51	3.66	2.11	1.63	1.31	1.08	0.933	0.744	0.605	0.325
1.75V/cell	18.7	13.3	10.39	8.66	6.45	4.68	3.83	2.19	1.66	1.34	1.11	0.959	0.757	0.621	0.328
1.70V/cell	20.6	14.5	11.1	9.10	6.71	4.87	3.95	2.24	1.70	1.38	1.13	0.979	0.768	0.633	0.334
1.65V/cell	22.7	15.7	11.8	9.67	7.08	4.99	4.04	2.28	1.78	1.43	1.16	1.00	0.780	0.646	0.339
1.60V/cell	25.1	17.0	12.6	10.3	7.48	5.20	4.08	2.37	1.83	1.47	1.20	1.02	0.788	0.653	0.341

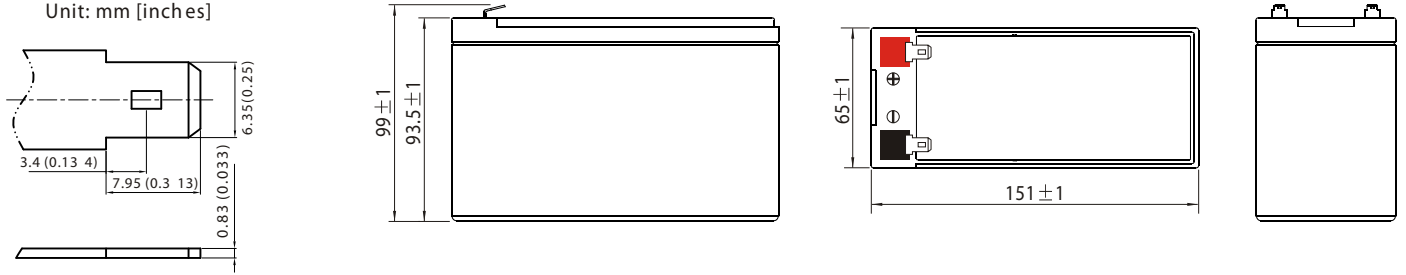
Constant Power Discharge (Watts) at 25 °C (77 °F)

F.V/Time	5min	10min	15min	20min	30min	45min	1h	2h	3h	4h	5h	6h	8h	10h	20h
1.85V/cell	22.6	17.6	14.7	12.8	10.0	7.45	6.31	3.75	2.95	2.40	1.97	1.71	1.39	1.16	0.637
1.80V/cell	30.1	22.2	17.5	14.9	11.7	8.60	7.02	4.07	3.15	2.55	2.10	1.83	1.47	1.19	0.643
1.75V/cell	33.2	24.0	18.9	15.9	12.0	8.84	7.32	4.20	3.20	2.60	2.15	1.87	1.49	1.23	0.648
1.70V/cell	35.5	25.5	19.9	16.6	12.4	9.16	7.52	4.30	3.28	2.67	2.20	1.91	1.51	1.25	0.660
1.65V/cell	38.6	27.3	21.0	17.5	13.0	9.31	7.64	4.34	3.41	2.75	2.25	1.94	1.53	1.27	0.668
1.60V/cell	41.6	29.0	22.1	18.5	13.6	9.65	7.67	4.50	3.50	2.82	2.32	1.98	1.54	1.28	0.671

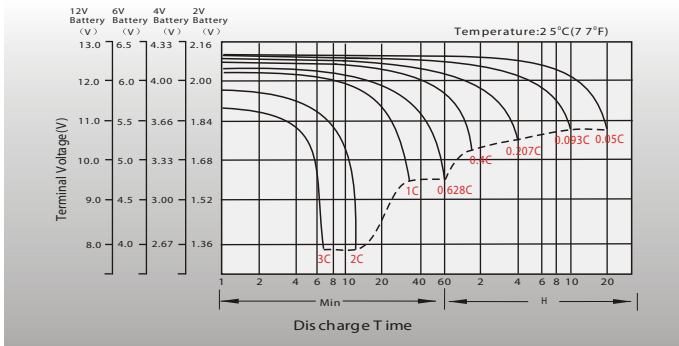
Dimensions

T2 Terminal

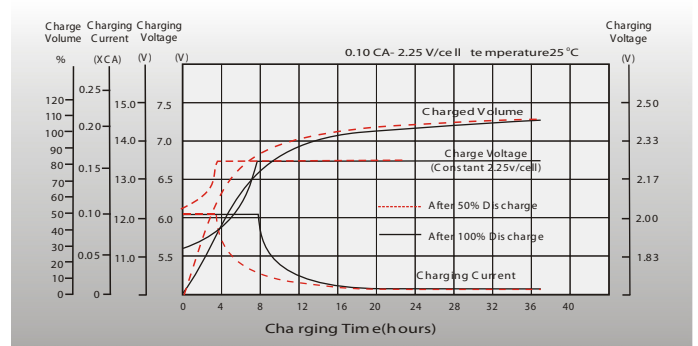
Unit: mm [inches]



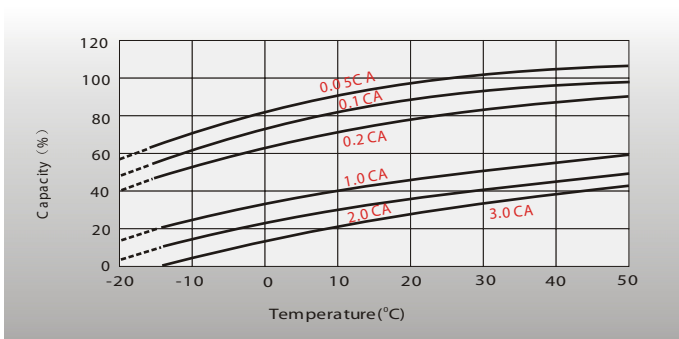
Discharge Characteristics



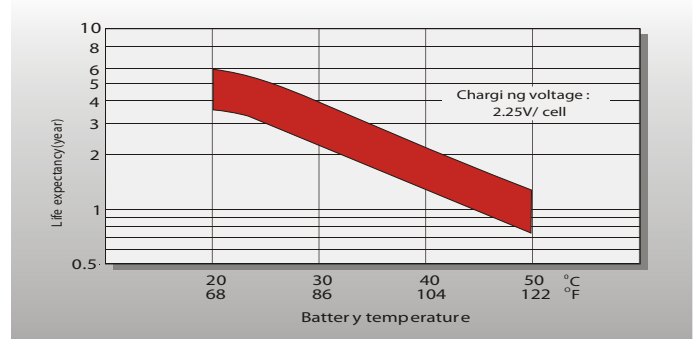
Float Charging Characteristics



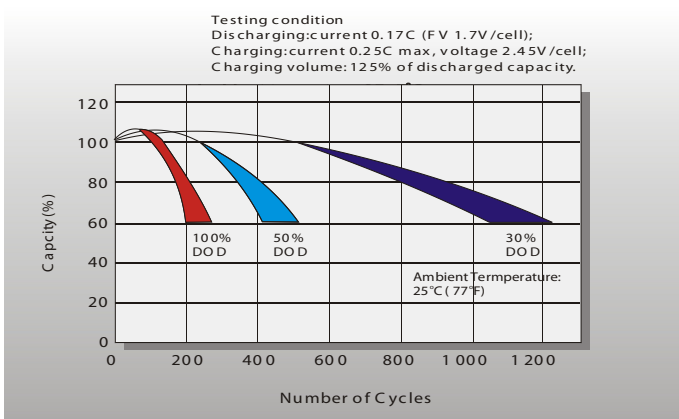
Temperature Effects in Relation to Battery Capacity



Effect of Temperature on Long Term Float Life



Cycle Life in Relation to Depth of Discharge



Self Discharge Characteristics

