

# MKC12-2.9

491460213 - 12V2.9AH/ 20HR

## Introduction

**MKC1229 SERIES (12V-2,9AH)** is designed for standby use with 5-year design life in float service. The series battery is featured of high consistency, excellent performance and reliable standby service life. It is widely applied in UPS/EPS, medical equipment, emergency light and security system.

### Battery Features

- Outstanding consistency in Standby system
- Stable quality and high pass rate
- 5 years design life in floating condition
- Low self-discharge rate

## Electrical Specification

Design floating Life @ 20°C (68°F)	5 years
Nominal Capacity @ 25°C /77°F	
20 hourrate 0.14 A to 1.75Vpc	<b>2.9</b> Ah
10 hourrate 0.26 A to 1.75Vpc	<b>2.7</b> Ah
5 hourrate 0.49 A to 1.70Vpc	<b>2.5</b> Ah
1 hourrate 1.50 A to 1.60Vpc	<b>1.5</b> Ah
Internal Resistance	
(Fully charged battery @ 25°C /77°F)	59 mOhms
Max Discharge Current @ 25°C /77°F	28A (5S)
Charge Methods: Constant voltage charge @ 25°C /77°F	
Cycle Use	14.7 ~ 14.9V
Max Current	0.8A
Standby Use	13.6 - 13.8V
Operating Temperature Range	
Discharge	-15 ~ 35°C
Charge	0 ~ 35°C
Storage	-15 ~ 35°C
Recommended Operating Temp	15 ~ 25°C
Self-Discharge	

3% of capacity declined per month @ 20°C (68°F). The batteries may be stored for up to 6 months @ 25°C (77°F) and then a freshening charge is required. For higher temperatures the time interval will be shorter.

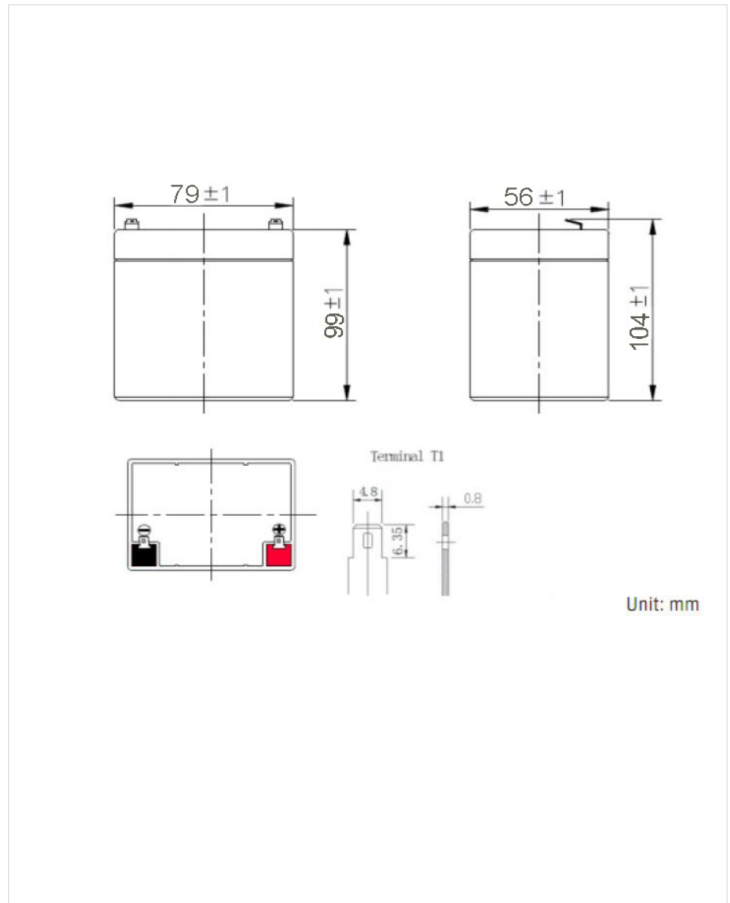
### Typical Applications

- UPS & EPS
- Security Power Supply
- Power Utility
- Electrical Toys

## Certificates



## Battery Picture



Unit: mm

## Dimension and Weight

Length	Dimension (± 1mm)			Weight (± 2%)	Terminal
	Width	Height	Total Height		
79 mm	56 mm	99 mm	104 mm	1.05 kg	T1
3.1 inch	2.2 inch	3.9 inch	4.1 inch	2.29 lbs	

## Constant Current Discharge\* (Amperes @25 /77°F)

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60	4.86	2.74	1.50	0.66	0.50	0.28	0.14
1.65	4.65	2.64	1.47	0.64	0.49	0.27	0.14
1.70	4.45	2.53	1.43	0.63	0.49	0.27	0.14
1.75	4.24	2.43	1.40	0.61	0.48	0.26	0.14
1.80	4.04	2.34	1.36	0.59	0.47	0.26	0.14

## Constant Power Discharge\* (Watts/cell @25 /77°F)

V/cell	15min	30min	1hr	3hr	5hr	10hr	20hr
1.60	9.31	5.13	3.08	1.42	0.92	0.56	0.30
1.65	8.93	4.93	2.94	1.38	0.90	0.55	0.30
1.70	8.56	4.76	2.80	1.35	0.89	0.55	0.29
1.75	8.25	4.55	2.66	1.31	0.87	0.54	0.29
1.80	7.87	4.38	2.56	1.26	0.85	0.53	0.27

\*The mentioned data are derived from of sample test result, for reference only.

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## Graphs

