

PRODUCT SPECIFICATION

PART NO.	MK-16V-B3FYS
Customer	
Customer P/N	
Issue Date	2019-9

Checked	Prepared		
Customer Approve			

JINZHOU KAIMEI POWER CO.,LTD TECHNOLOGY DEPARTMENT Tel:0416-4341210

Fax:0416-3886367

Web: www.kamcappower.com





1 SCOPE:

This product specification specifies the product's performance and test methods as a basis for technical validation.

2 General Specification:

2.1 Product application range:

The product can be used as an backup power source in electronic devices such as RAM, smart meters, motor drives, clock circuits, toys, and the like.

2.2 Standard test conditions:

Under normal circumstances, the test is carried out under standard atmospheric pressure, temperature 5~35 ° C, relative humidity less than 85%; the standard test conditions in this specification are standard atmospheric pressure, temperature 25 ° C, relative humidity less than 60%.

2.3 According to the standard:

IEC 62391-1 "Fixed electric double-layer capacitors for use in electronic equipment -

Part 1: Generic specification

Q/KMNY001-2009 "Electrochemical Capacitor"

3 Product Structure

This product is based on the principle of electric double layer capacitor. The inside uses activated carbon as the positive and negative electrode. The electrolyte is separated from the diaphragm by the electrolyte. The aluminum shell is sealed with the rubber plug. The lead is on the same side of the product.





4 General Specification

Ite	m	Specification/Condition
01	Part №	MK-16V-P3FYS
		20F-6C1B-YS
02	Rate capacitance	3
	(F 25°CΔV = 0.8U-0.4U I = 1A)	
03	Capacitance tolerance	-10%~~+30%
04	Rated Voltage	16
05	Absolute Maximum Voltage (V)	16.2
06	Rated Current (A)	3
Maximum Peak Current, 1 second repetitive)	Maximum Peak Current, 1 second (non	10
	repetitive)	10
08	08 Pressure equalization method	Equipped with voltage equalization
		circuit
09	Operating temperature range	-40℃~70℃
10	Maximum equivalent series resistance	160
10	ESR(m Ω 1KHz)	160
11	Shell packaging	Thermoplastic casing
12	Output method	Pin output





5 Environmental

Ite	m	Specification/Condition
01 Temperature characterist	Temperature characteristics	+70℃时 △C/C ≤30%, ESR≤Specified
		value(25℃) -40℃时 △C/C ≤30%, ESR≤4 times the
		specified value (25℃)
02	High temperature load	+70°C Rated voltage, after 1000h, \triangle C/C ≤
		30%
		, ESR≤4 times the specified value
0.2	High temperature without load	$+70^{\circ}$ C, after 1000 ± 4 h, $ \triangle C/C \leq 30\%$, ESR \leq
03		2 times the specified value
04	Humidity Resistance	Add the rated voltage and 500,000 cycles of charge
		and discharge experiments at room temperature,
		△C/C ≤30%,ESR≤4 times initial value.

6 KAM标识

KAM MARK





8 Product size

Size (mm) (L*W*H)	About 98.5×17×40
Output method	Pin output
Output description	Positive electrode: long lead pin
Output description	Negative electrode: short lead pin





9 Precautions for use

- (1) Supercapacitors should be used at nominal voltage
- (2) The super capacitor has polarity and is used according to the specified polarity.
- (3) Ambient temperature affects the life of supercapacitors
- (4) There is a voltage drop \triangle V=IR at the moment of discharge
- (5) It should be stored in an environment where the temperature is -40 $^{\circ}$ C \sim 70 $^{\circ}$ C and the relative humidity is less than 60%.
- (6) Do not store in places with relative humidity greater than 85% or containing toxic gases
- (7) Supercapacitors should not be used in high frequency charging and discharging circuits
- (8) When supercapacitors are used in series, there is a voltage balance problem between cells
- (9) For other problems, please consult the manufacturer or refer to the relevant technical information of the supercapacitor instructions.

