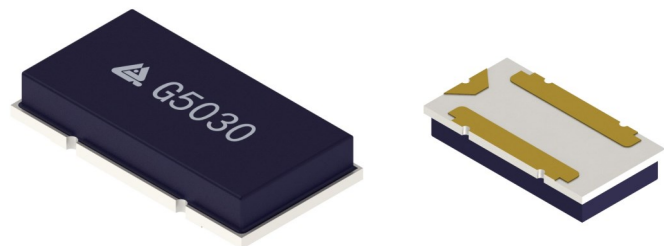


Controllable Fuse

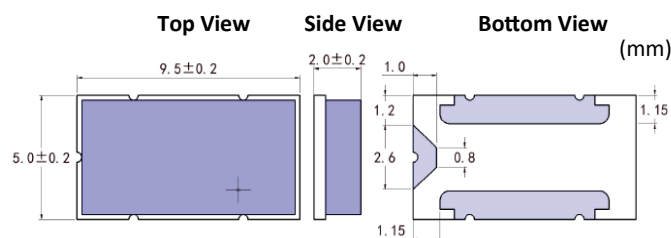
ACFG Series (30A, G Size 9.5 mm * 5.0 mm)



Applications:

- Vacuum cleaner
- Power tools
- E-scooter & E-bike
- UPS & BMS
- PC & NB
- Smartphone
- Tablet
- IT

Shape and Dimensions:



Agency Approval:

- Recognized Under the Components Program of Underwriters Laboratories. Certification #: UL-E232989

Features:

- Fast response
- Multiple protection for overcharging and overcurrent
- Compact design and surface mountable
- Ideal for Li-ion battery (single & multi cell) application
- Three terminals

Packaging:



Chip Size	Parts on 13 inch (330 mm) Reel
9.5 mm * 5.0 mm	2,000

Product Identification:

ACF G 050 030 T

(1) (2) (3) (4) (5)

- (1) **Series Code:** AEM Controllable Fuse
- (2) **Size Code:** G Size 9.5 mm*5.0 mm (length x width)
- (3) **Operation Voltage Code:** 050 - 50V
- (4) **Current Rating Code:** 30 - 30A
- (5) **Package Code:** T - Tape & Reel, B - Bulk

Marking:  G5030;  AEM Logo;

G:Size Code ; **50:** Operation Voltage Code; **30:** Current Rating Code

Ordering Information:

Part Number	I _{rated} (A) ¹	Cells in Series ²	V _{max} (V DC) ³	I _{break} (A) ⁴	V _{op} (V) ⁵	R _{fuse} (mΩ) ⁶
ACFG004030T	30	1	120	80	4.0 ~ 6.6	1.0~2.5
ACFG008030T	30	2	120	80	5.6 ~ 9.0	1.0~2.5
ACFG012030T	30	3	120	80	8.4 ~ 13.2	1.0~2.5
ACFG020030T	30	4~5	120	80	10.5 ~ 23.5	1.0~2.5
ACFG030030T	30	6~7	120	80	20.2 ~ 31.5	1.0~2.5
ACFG032030T	30	8	120	80	26.4 ~ 36.0	1.0~2.5
ACFG040030T	30	10~14	120	80	28.0 ~ 62.0	1.0~2.5
ACFG044030T	30	12	120	80	33.6 ~ 54.0	1.0~2.5
ACFG048030T	30	13	120	80	36.2 ~ 58.5	1.0~2.5
ACFG050030T	30	15~17	120	80	42.0 ~ 74.8	1.0~2.5

- I_{rated}: Current carrying capacity that is measured at 40°C thermal equilibrium condition
- Cells in series: Number of battery cells connected in series in the circuit for the device to protect
- V_{max}: The maximum Voltage that can be cut off by fuse

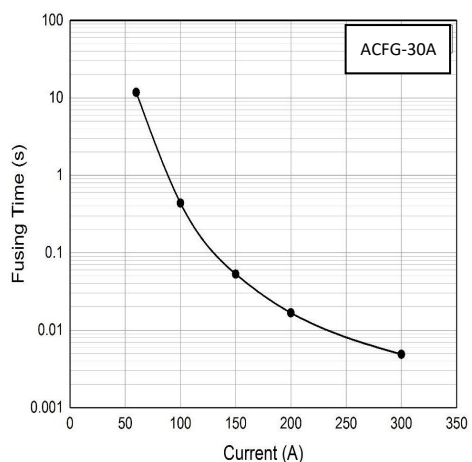
- I_{break}: The current that the fuse element able to interrupt
- V_{op}: Range of operation voltage
- R_{fuse}: The resistance of the fuse element

Controllable Fuse

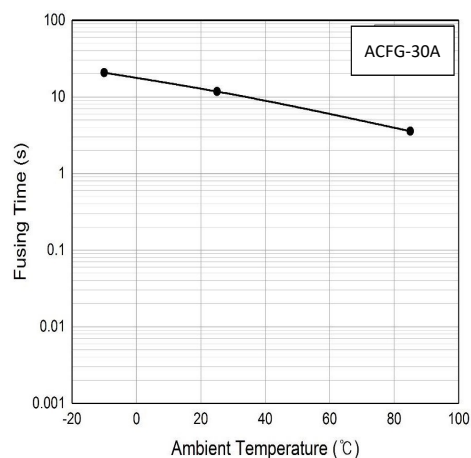
ACFG Series (30A, G Size 9.5mm*5.0mm)

Product Performance Curve:

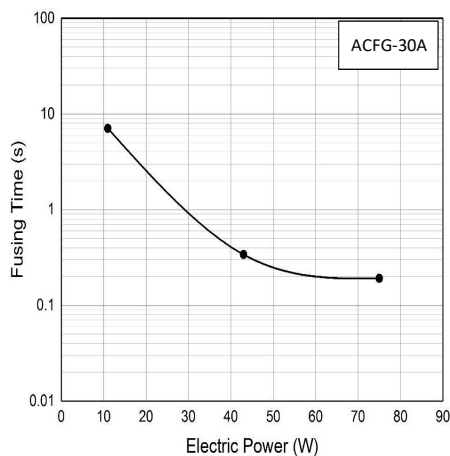
1 Characteristics Diagram (I-t)



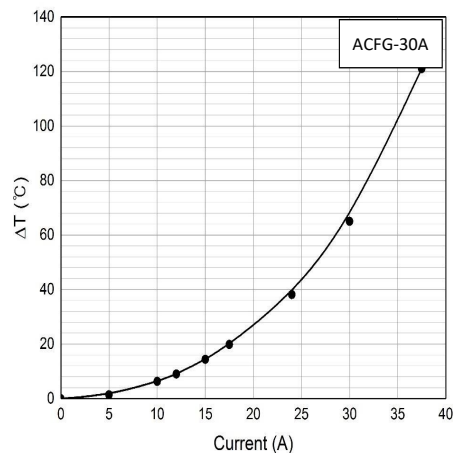
2 Characteristics Diagram (2*I-t)



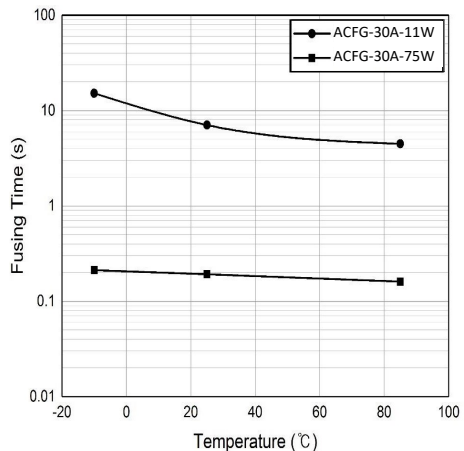
3 Curve Of Heating Element Power And Fusing Time



4 Current And Ambient Temperature



5 Fusing Time Curve Under Different Power / Ambient Temperature



Disclaimer

Specifications are subject to change without notice. AEM products are designed for specific applications and should not be used for any purpose (including, without limitation, automotive, aerospace, medical, life-saving applications, or any other application which requires especially high reliability for the prevention of such defect as may directly cause damage to the third party's life, body or property) not expressly set forth in applicable AEM product documentation. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Warranties granted by AEM shall be deemed void for products used for any purpose not expressly set forth in applicable AEM product documentation. AEM shall not be liable for any claims or damages arising out of products used in applications not expressly intended by AEM as set forth in applicable AEM product documentation. The sale and use of AEM products is subject to AEM terms and conditions of sale. Please refer to AEM's website for updated catalog and terms and conditions of sale.



AEM Components (Suzhou) Co., Ltd

**461 Zhongnan Street,
China-Singapore Suzhou Industrial Park
Jiangsu, P. R. China, 215026**

Tel: 86-512-6258-0028

Fax: 86-512-6258-0018

Email: marketing@aemchina.com

AEM Components (USA), Inc.

6670 Cobra Way, San Diego, CA 92121, USA

Tel: 1-858-750-6100

Fax: 1-858-481-1123

Email: sales@aemcomponents.com