A84 gPV 1500 Vdc Fuse 14x51 mm

DESCRIPTION

Adler A84 series PV fuses are engineered and manufactured for use in Combiner Box and Power Storage Protection, made from the highest quality materials and tested to the highest standards. With rated currents from 1A to 50A with a breaking capacity of 30kA.

AGENCY INFORMATION

- Comply to: UL248-19, IEC 60269-6
- Approvals: UL (E490190), TUV (50482515)
- Manufactured under IATF 16949 quality system
- RoHS and REACH Compliant

FEATURES

- 1500 Vdc, 14x51 mm PV fuse-link with glass-fiber body
- Rated Current: 1-32 A (regular use)
- 1-50 A (single mount inline fuse)
- Breaking Capacity: 30 kA @ 1500 Vdc
- Time Constant: 1-3 ms
- Special design with silver plated caps for high-power PV applications
- Customizable for special application
- BH200, BH201 holders for DIN rail mounting

APPLICATIONS

- PV combiner / junction boxes
- Inverters
- Battery Charge Controllers

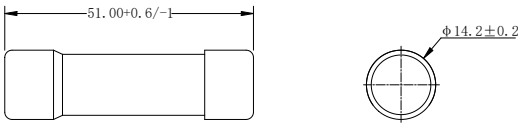
PART NUMBERING SYSTEM

A84 2500 b 00

- 00: Supplementary Code:
  00: Cylindrical,
  01: 10/12 AWG In-terminal,
  04: 8 AWG In-terminal,
  06: 8,10/12AWG In-terminal,
  07: 6-10/12AWG In-terminal,
  08: 6AWG In-terminal,
  03: Level Mount,
  05: PCB Mount,
  09: Central Mount.
- b: Rated Voltage: b: 1500 V
- 2500: Ampere Code: see table 2
- A84: Product Series: A84

DIMENSIONS (mm)

A84xxxxb00



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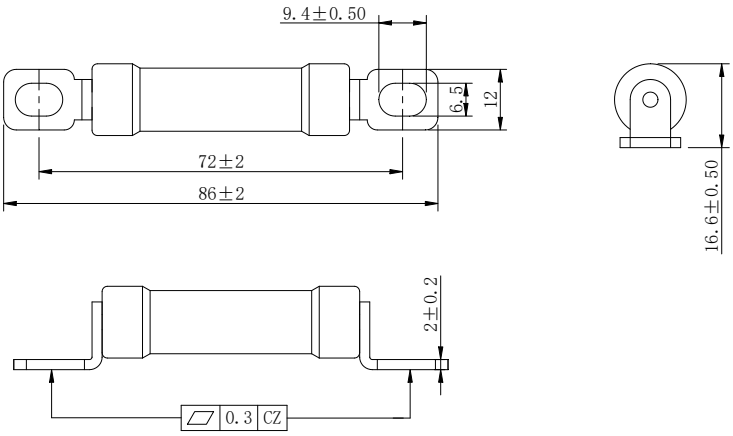

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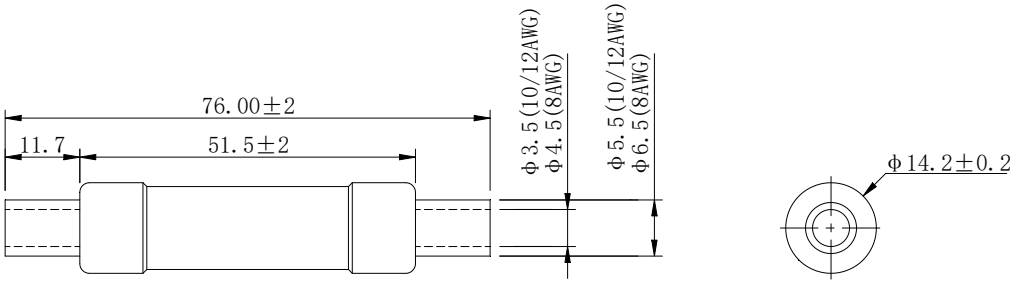

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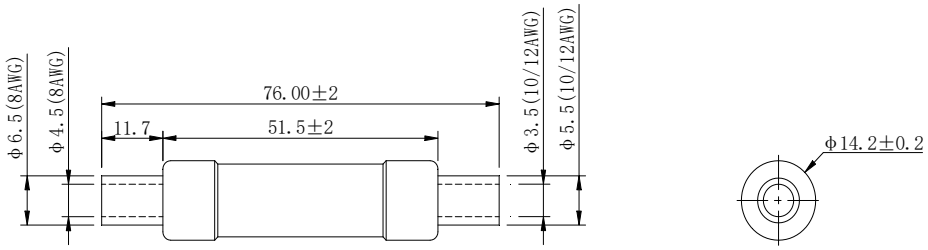

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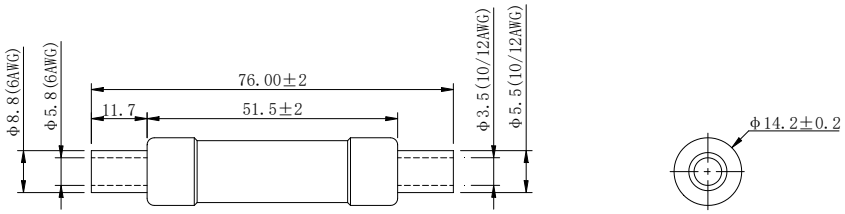

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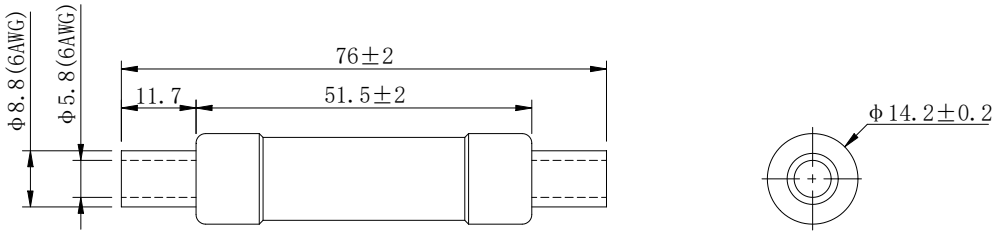

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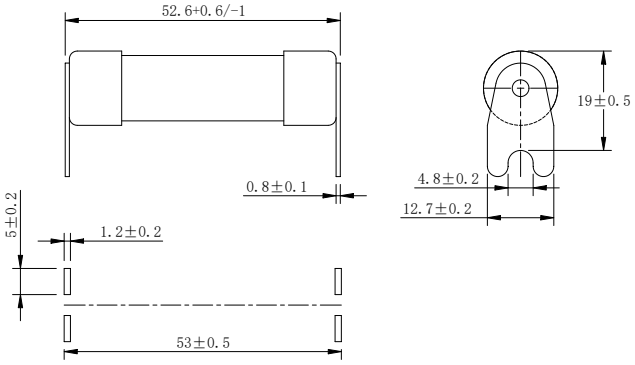

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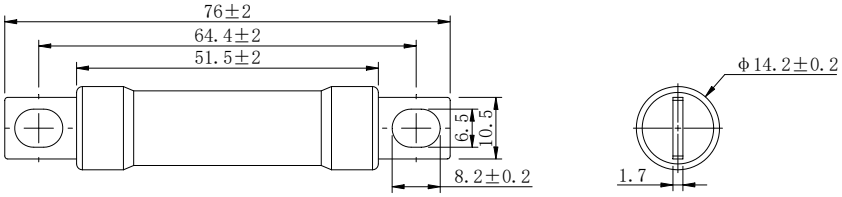


PACKING INFORMATION

Fuse Size	Box specifications (mm)	Packing quantity / per container	Weight / PCS (g)	Mounting Method	mounting requirements
A84xxxxb00	410×215×160	648pcs	16.5±3%	BH200	-
A84xxxxb01	410×215×160	432pcs	22±3%	10/12 AWG	-
A84xxxxb04	410×215×160	432pcs	23.5±3%	8 AWG	-
A84xxxxb06	410×215×160	432pcs	23.7±3%	8,10/12AWG	-
A84xxxxb07	410×215×160	432pcs	24±3%	6,10/12AWG	-
A84xxxxb08	410×215×160	432pcs	27±3%	6AWG	-
A84xxxxb03	410×215×160	308pcs	24±3%	M6	6±1
A84xxxxb05	410×215×160	288pcs	22.6±3%	PCB	-
A84xxxxb09	410×215×160	432pcs	24.3±3%	M6	6±1

ELECTRICAL CHARACTERISTIC

Part Number						Rated Current	Ampere Code	Breaking Capacity	I²t (A²s)		Certifications	
Cylindrical	10/12 AWG In-terminal	8 AWG In-terminal	8,10/12 AWG In-terminal	6-10/12 AWG In-terminal	6 AWG In-terminal				Pre-Arcing	Total	UL	TUV
A841100b00	A841100b01	A841100b04	A841100b06	A841100b07	A841100b08	1 A	1100	30kA@ 1500 Vdc	20	110	•	•
A841200b00	A841200b01	A841200b04	A841200b06	A841200b07	A841200b08	2 A	1200		40	220	•	•
A841300b00	A841300b01	A841300b04	A841300b06	A841300b07	A841300b08	3 A	1300		60	330	•	•
A841400b00	A841400b01	A841400b04	A841400b06	A841400b07	A841400b08	4 A	1400		80	440	•	•
A841500b00	A841500b01	A841500b04	A841500b06	A841500b07	A841500b08	5 A	1500		100	550	•	•
A841600b00	A841600b01	A841600b04	A841600b06	A841600b07	A841600b08	6 A	1600		120	660	•	•
A841800b00	A841800b01	A841800b04	A841800b06	A841800b07	A841800b08	8 A	1800		160	880	•	•
A842100b00	A842100b01	A842100b04	A842100b06	A842100b07	A842100b08	10 A	2100		200	1100	•	•
A842120b00	A842120b01	A842120b04	A842120b06	A842120b07	A842120b08	12 A	2120		240	1320	•	•
A842150b00	A842150b01	A842150b04	A842150b06	A842150b07	A842150b08	15 A	2150		300	1650	•	•
A842160b00	A842160b01	A842160b04	A842160b06	A842160b07	A842160b08	16 A	2160		320	1760	•	•
A842200b00	A842200b01	A842200b04	A842200b06	A842200b07	A842200b08	20 A	2200		400	2200	•	•
A842250b00	A842250b01	A842250b04	A842250b06	A842250b07	A842250b08	25 A	2250		500	2750	•	•
A842300b00	A842300b01	A842300b04	A842300b06	A842300b07	A842300b08	30 A	2300		600	3300	•	•
A842320b00	A842320b01	A842320b04	A842320b06	A842320b07	A842320b08	32 A	2320		640	3520	•	•
A842350b00	A842350b01	A842350b04	A842350b06	A842350b07	A842350b08	35 A	2350		700	3850	•	•
A842400b00	A842400b01	A842400b04	A842400b06	A842400b07	A842400b08	40 A	2400		800	4400	•	•
A842450b00	A842450b01	A842450b04	A842450b06	A842450b07	A842450b08	45 A	2450		900	4950	•	•
A842500b00	A842500b01	A842500b04	A842500b06	A842500b07	A842500b08	50 A	2500		1000	5500	•	•

Part Number			Rated Current	Ampere Code	Breaking Capacity	I²t (A²s)		Dissipation(W)		Certifications	
Level Mount	PCB Mount	Central Mount				Pre-Arcing	Total	0.8 I_n	1.0 I_n	UL	TUV
A841100b03	A841100b05	A841100b09	1 A	1100	30 kA@ 1500 Vdc	20	110	0.1	0.1	•	•
A841200b03	A841200b05	A841200b09	2 A	1200		40	220	0.2	0.3	•	•
A841300b03	A841300b05	A841300b09	3 A	1300		60	330	0.3	0.4	•	•
A841400b03	A841400b05	A841400b09	4 A	1400		80	440	0.4	0.6	•	•
A841500b03	A841500b05	A841500b09	5 A	1500		100	550	0.5	0.7	•	•
A841600b03	A841600b05	A841600b09	6 A	1600		120	660	0.6	0.9	•	•
A841800b03	A841800b05	A841800b09	8 A	1800		160	880	0.9	1.1	•	•
A842100b03	A842100b05	A842100b09	10 A	2100		200	1100	1.1	1.4	•	•
A842120b03	A842120b05	A842120b09	12 A	2120		240	1320	1.3	1.7	•	•
A842150b03	A842150b05	A842150b09	15 A	2150		300	1650	1.6	2.2	•	•
A842160b03	A842160b05	A842160b09	16 A	2160		320	1760	1.7	2.4	•	•
A842200b03	A842200b05	A842200b09	20 A	2200		400	2200	2.1	2.9	•	•
A842250b03	A842250b05	A842250b09	25 A	2250		500	2750	2.7	3.6	•	•
A842300b03	A842300b05	A842300b09	30 A	2300		600	3300	3.2	4.3	•	•
A842320b03	A842320b05	A842320b09	32 A	2320		640	3520	3.4	4.6	•	•
A842350b03	A842350b05	A842350b09	35 A	2350		700	3850	3.7	5	•	•
A842400b03	A842400b05	A842400b09	40 A	2400		800	4400	4.3	5.7	•	•
A842450b03	A842450b05	A842450b09	45 A	2450		900	4950	4.8	6.5	•	•
A842500b03	A842500b05	A842500b09	50 A	2500		1000	5500	5.3	7.2	•	•

Note: (1) Typical pre-arcing I²t measured at 10*In current

TIME VS CURRENT CHARACTERISTIC

Standard	UL			IEC		
Rated Current	100 %	135 %	200 %	100 %	113 %	145 %
1-50 A	Temperature Stabilization	<1 h	<4 min	Temperature Stabilization	>1 h	<1 h

OPERATING CONDITIONS

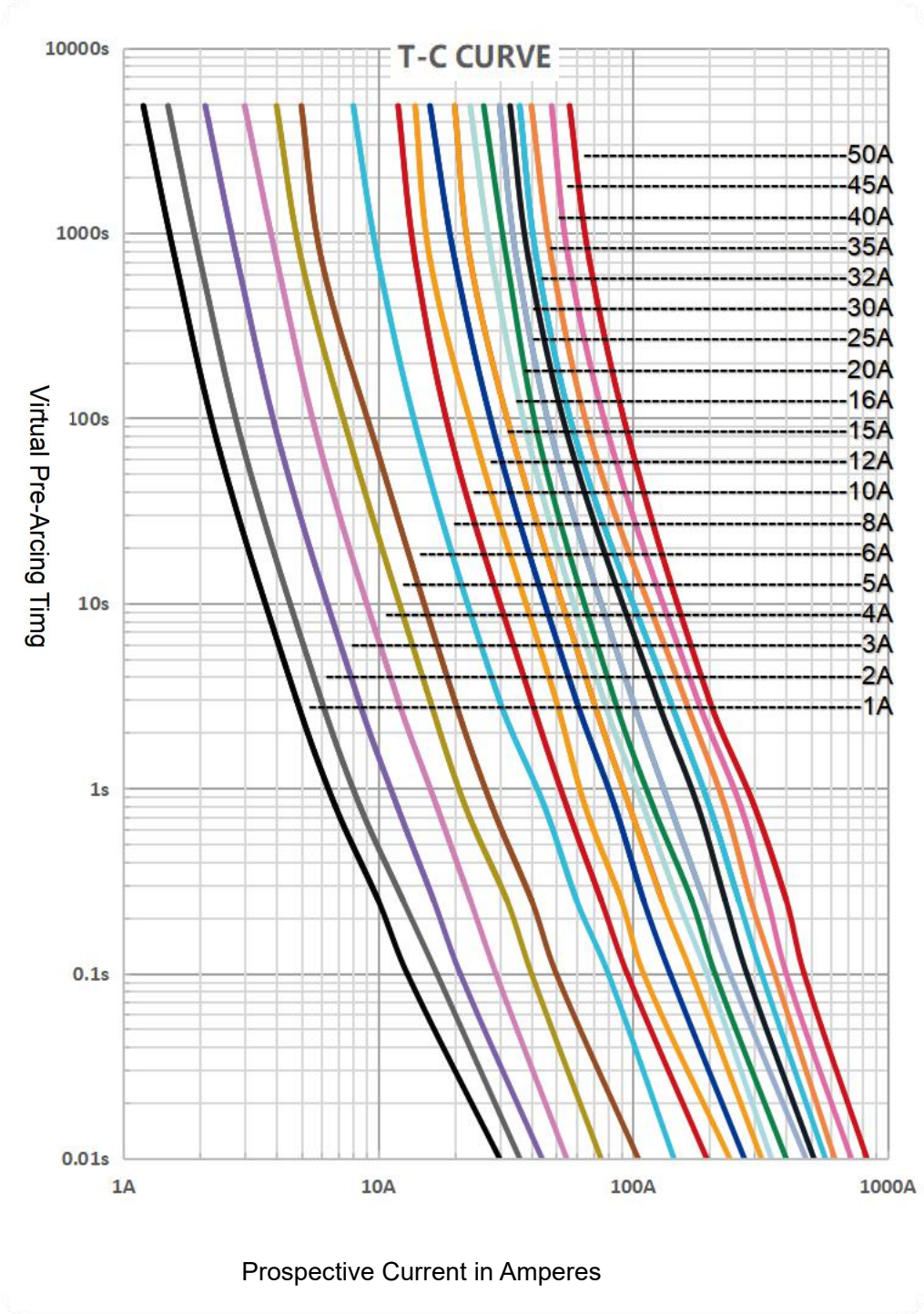
Where the following conditions apply, fuses complying with this standard are deemed capable of operating satisfactorily without further qualification.

- Installation suggestion: Screw M6, Tightening torque 6±1N·m.
- Normal temperature: -5℃ ~ 40℃, permissible operating temperature：-40℃-90℃.
- The altitude of the site of installation of the fuses should not exceed 2000 m above sea level and permissible altitude site of installation does not exceed 5000m.
- The air should be clean, and its relative humidity does not exceed 50 % at the maximum temperature of 40℃.
- Higher relative humidity's are permitted at lower temperatures, e.g., 90 % at 20℃.
- Pollution grade Ⅲ
- Under these conditions, moderate condensation may occasionally occur due to variation in temperature.
- For operating conditions other than that above, please contact the manufacturer.

STORAGE

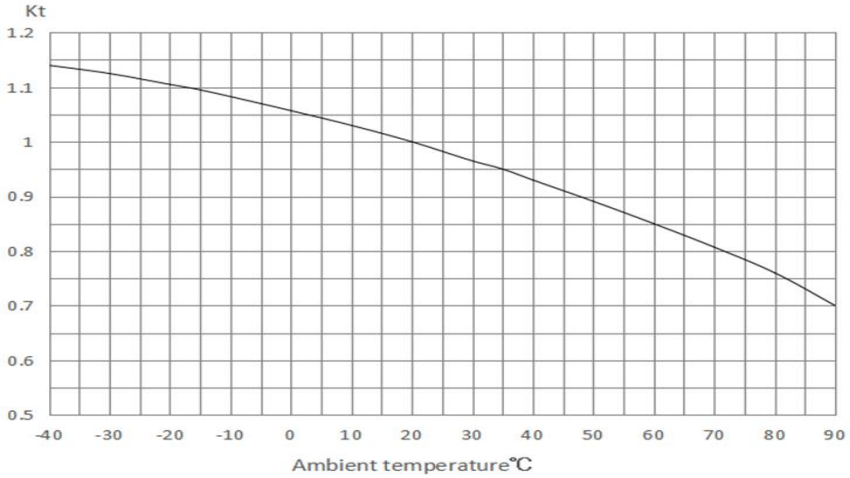
During transportation and storage, customer should avoid water seepage and mechanical damage.

TIME CURRENT CURVE (reference)



TEMPERATURE CORRECTION CURVE

When the fuse is operating below -5℃ or above 40℃, the rated current needs additional modification. The correction factor is Kt.



WEB RESOURCES

Download the latest technical documents: www.adlerelectric.com. Specifications are subject to change without notice.