

A94 gPV 1500 Vdc Fuse 22x58 mm



FEATURES:

- 1500 Vdc, 22x58 mm PV fuse link with glass-fiber body
- Rated Current: 1-80 A
- Breaking Capacity: 30 kA at 1500 Vdc (1-65 A)
10 kA at 1300 Vdc (70 A, 80 A)
- Time Constant: 1-3 ms
- Special design with silver plated caps for high-power PV applications
- Customizable for special applications

DESCRIPTION

Adler A94 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.

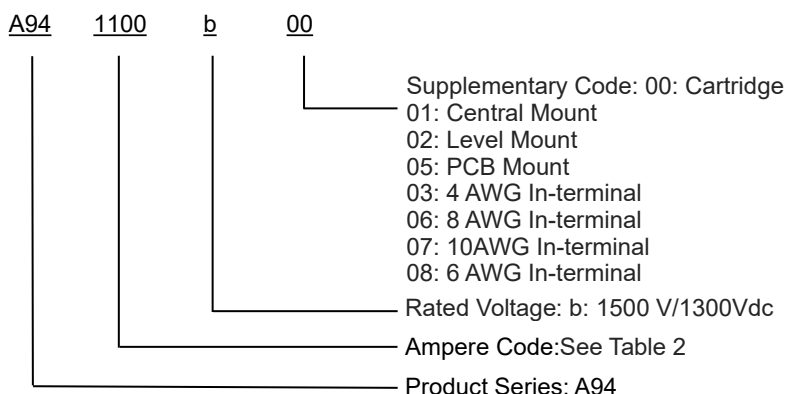
AGENCY INFORMATION

- Standard: UL 248-19, IEC 60269-6
- Approvals: UL (File: E490190), TUV(50452200)
- Manufactured under IATF 16949 quality system
- RoHS and REACH Compliant

APPLICATIONS

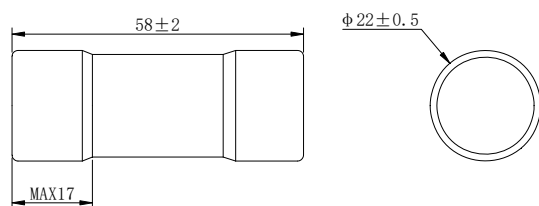
- PV combiner / junction boxes
- Inverters
- Battery Charge Controllers

PART NUMBERING SYSTEM

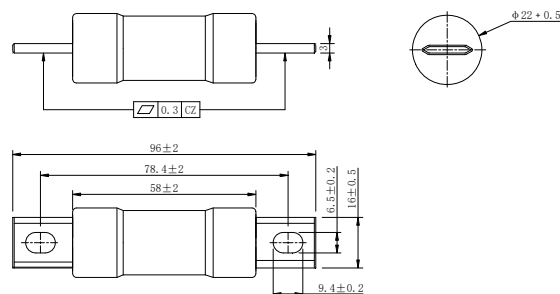


DIMENSIONS (mm)

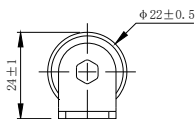
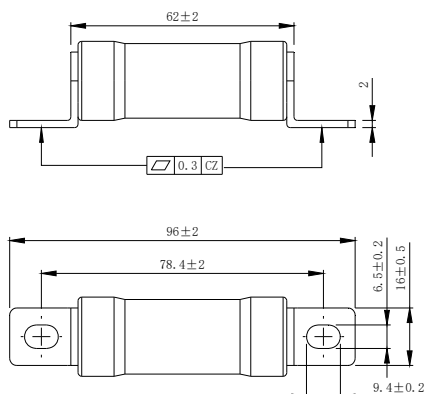
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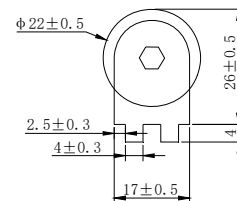
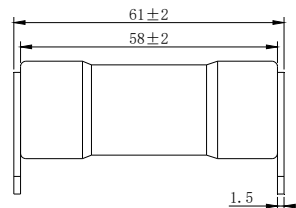
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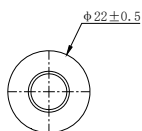
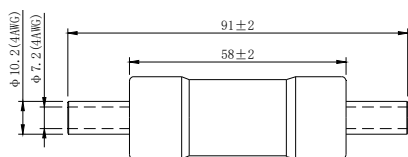
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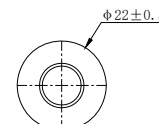
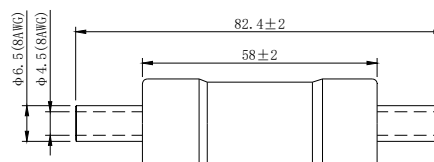
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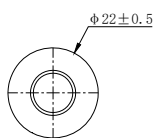
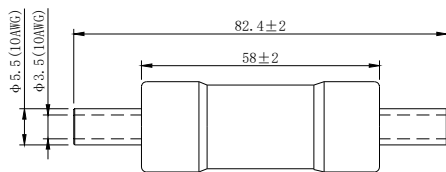
A94xxxxb03



A94xxxxb06



A94xxxxb07



A94xxxxb08

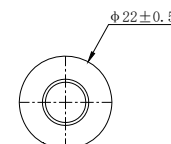
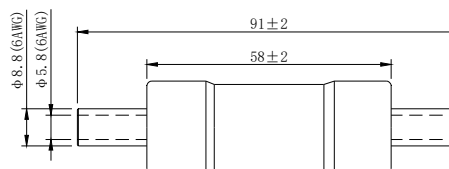


Table1

Packing information

Fuse Size	Box specifications (mm)	Packing quantity / per container	Weight / PCS (g)	Mounting Method	Mounting requirements
A94xxxxb00	410×215×160	240pcs	52±3%	BH400-BH401	-
A94xxxxb01	410×215×160	120pcs	67±3%	M6	6±1N • m
A94xxxxb02	410×215×160	120pcs	65±3%	M6	6±1N • m
A94xxxxb05	410×215×160	120pcs	65±3%	PCB	-
A94xxxxb03	410×215×160	120pcs	67±3%	4 AWG	-
A94xxxxb06	410×215×160	120pcs	66±3%	8 AWG	-
A94xxxxb07	410×215×160	120pcs	55±3%	10 AWG	-
A94xxxxb08	410×215×160	120pcs	60±3%	6 AWG	-

Table2

ELCTRICAL SPECIFICATIONS

Part Number				Rated Current	Ampere Code	Breaking Capacity	I ² t (A²s)		Dissipation (W)		Certification	
Cartridge	Central Mount	Level Mount	PCB Mount				Pre-Ar cing	Total	0.8 I _n	1.0 I _n	UL	TUV
A941100b00	A941100b01	A941100b02	A941100b05	1 A	1100	30kA 1500 Vdc	20	110	0.2	0.3	•	•
A941200b00	A941200b01	A941200b02	A941200b05	2 A	1200		40	220	0.5	0.6	•	•
A941300b00	A941300b01	A941300b02	A941300b05	3 A	1300		60	330	0.5	0.6	•	•
A941400b00	A941400b01	A941400b02	A941400b05	4 A	1400		80	440	0.7	0.8	•	•
A941500b00	A941500b01	A941500b02	A941500b05	5 A	1500		100	550	0.7	0.8	•	•
A941600b00	A941600b01	A941600b02	A941600b05	6 A	1600		120	660	1.2	1.5	•	•
A941800b00	A941800b01	A941800b02	A941800b05	8 A	1800		160	880	1.2	1.5	•	•
A942100b00	A942100b01	A942100b02	A942100b05	10 A	2100		200	1100	1.5	1.9	•	•
A942120b00	A942120b01	A942120b02	A942120b05	12 A	2120		240	1320	2.0	2.5	•	•
A942150b00	A942150b01	A942150b02	A942150b05	15 A	2150		300	1650	2.9	3.6	•	•
A942160b00	A942160b01	A942160b02	A942160b05	16 A	2160		320	1760	3.9	4.8	•	•
A942200b00	A942200b01	A942200b02	A942200b05	20 A	2200		400	2200	4.2	5.2	•	•
A942250b00	A942250b01	A942250b02	A942250b05	25 A	2250		500	2750	5.1	6.3	•	•
A942300b00	A942300b01	A942300b02	A942300b05	30 A	2300		600	3300	5.1	6.3	•	•
A942320b00	A942320b01	A942320b02	A942320b05	32 A	2320		640	3520	6.0	7.5	•	•
A942350b00	A942350b01	A942350b02	A942350b05	35 A	2350		700	3850	6.0	7.5	•	•
A942400b00	A942400b01	A942400b02	A942400b05	40 A	2400		800	4400	7.2	9.0	•	•
A942450b00	A942450b01	A942450b02	A942450b05	45 A	2450		900	4950	7.2	9.0	•	•
A942500b00	A942500b01	A942500b02	A942500b05	50 A	2500		1000	5500	7.2	9.0	•	•
A942550b00	A942550b01	A942550b02	A942550b05	55 A	2550		1100	6050	8.0	10.0	•	•
A942600b00	A942600b01	A942600b02	A942600b05	60 A	2600		1200	6600	8.0	10.0	•	•
A942650b00	A942650b01	A942650b02	A942650b05	65 A	2650		1300	7150	9.5	12.0	•	•
A942700b00	A942700b01	A942700b02	A942700b05	70 A	2700	10kA 1300 Vdc	1400	7700	9.5	12.0	•	•
A942800b00	A942800b01	A942800b02	A942800b05	80 A	2800		1600	8800	9.5	12.0	•	•

Part Number				Rated Current	Ampere Code	Breaking Capacity	I ² t (A ² s)		Dissipation (W)		Certification	
4 AWG In-terminal	8 AWG In-terminal	10 AWG In-terminal	6 AWG In-terminal				Pre-Arcing	Total	0.8 I _n	1.0 I _n	UL	TUV
---	A941100b06	A941100b07	---	1 A	1100	30 kA@ 1500 Vdc	20	110	0.2	0.3	•	•
---	A941200b06	A941200b07	---	2 A	1200		40	220	0.5	0.6	•	•
---	A941300b06	A941300b07	---	3 A	1300		60	330	0.5	0.6	•	•
---	A941400b06	A941400b07	---	4 A	1400		80	440	0.7	0.8	•	•
---	A941500b06	A941500b07	---	5 A	1500		100	550	0.7	0.8	•	•
---	A941600b06	A941600b07	---	6 A	1600		120	660	1.2	1.5	•	•
---	A941800b06	A941800b07	---	8 A	1800		160	880	1.2	1.5	•	•
---	A942100b06	A942100b07	---	10 A	2100		200	1100	1.5	1.9	•	•
---	A942120b06	A942120b07	---	12 A	2120		240	1320	2.0	2.5	•	•
---	A942150b06	A942150b07	---	15 A	2150		300	1650	2.9	3.6	•	•
---	A942160b06	A942160b07	---	16 A	2160		320	1760	3.9	4.8	•	•
---	A942200b06	A942200b07	---	20 A	2200		400	2200	4.2	5.2	•	•
---	A942250b06	A942250b07	A942250b0	25 A	2250		500	2750	5.1	6.3	•	•
A942300b03	A942300b06	A942300b07	A942300b0	30 A	2300		600	3300	5.1	6.3	•	•
A942320b03	A942320b06	A942320b07	A942320b0	32 A	2320		640	3520	6.0	7.5	•	•
A942350b03	A942350b06	A942350b07	A942350b0	35 A	2350		700	3850	6.0	7.5	•	•
A942400b03	A942400b06	---	A942400b0	40 A	2400		800	4400	7.2	9.0	•	•
A942450b03	A942450b06	---	A942450b0	45 A	2450		900	4950	7.2	9.0	•	•
A942500b03	A942500b06	---	A942500b0	50 A	2500		1000	5500	7.2	9.0	•	•
A942550b03	A942550b06	---	A942550b0	55 A	2550		1100	6050	8.0	10.0	•	•
A942600b03	---	---	A942600b0	60 A	2600	10 kA@ 1300 Vdc	1200	6600	8.0	10.0	•	•
A942650b03	---	---	A942650b0	65 A	2650		1300	7150	9.5	12.0	•	•
A942700b03	---	---	A942700b0	70 A	2700		1400	7700	9.5	12.0	•	•
A942800b03	---	---	A942800b0	80 A	2800		1600	8800	9.5	12.0	•	•

Table3

TIME VS CURRENT CHARACTERISTIC

Standard	UL			IEC		
Rated Current	100 %	135 %	200 %	100 %	113 %	145 %
1-80 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.

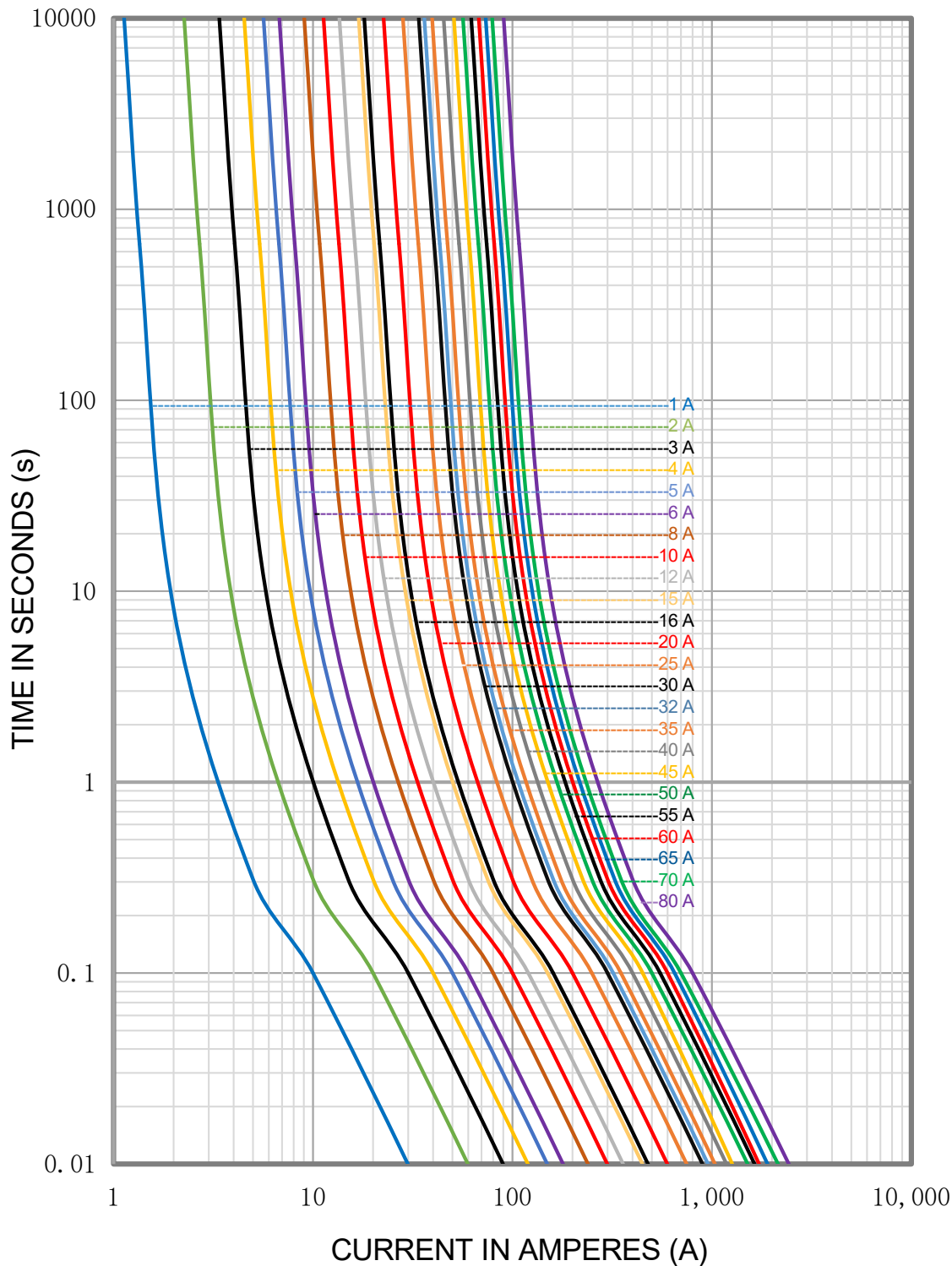
- Installation suggestion: Screw M6, Tightening torque 6±1N • m.
- Normal temperature: -5°C ~ 40°C, permissible operating temperature: -40°C-90°C.
- The altitude of the site of installation of the fuses should not exceed 2000 m above sea level and permissible altitude site of installation does not exceed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

Storage

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

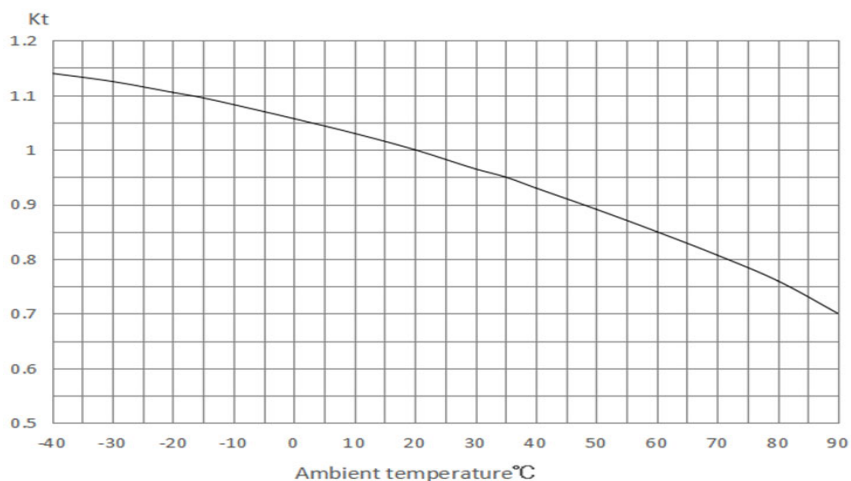
IME CURRENT CURVE

Average Current Curve(I-T Curve)



TEMPERATURE CORRECTION CURVE

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



WEB RESOURCES

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