

A85 gPV 1500 Vdc Fuse 10×85 mm



DESCRIPTION

Adler A85 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 32A with a breaking capacity of 30kA.

AGENCY INFORMATION

- Approvals: UL 248-19 (File: E490190), TUV(File:50475498)
- Approvals: IEC 60269-6
- Manufactured under IATF 16949 quality system
- RoHS and REACH Compliant

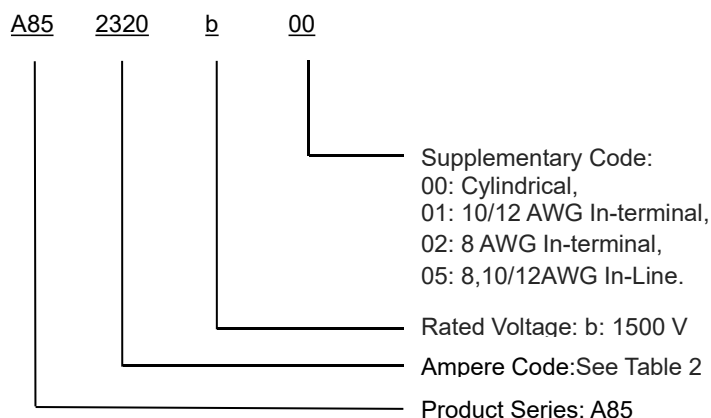
FEATURES

- 1500 Vdc, 10×85 mm PV fuse-link with glass-fiber body
- Rated Current: 1-32 A
- Rated Breaking Capacity: 30 kA @ 1500 Vdc (1-32A)
Self - Certified: 50 kA @ 1500 Vdc (1-20A)
- Time Constant: 1-3 ms
- Special design with silver plated caps for high-power PV applications
- Customizable for special applications
- BH300-01, BH300-02 holders for DIN rail mounting

APPLICATIONS

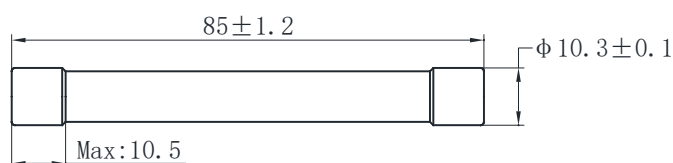
- PV combiner / junction boxes
- Inverters
- Battery Charge Controllers

PART NUMBERING SYSTEM

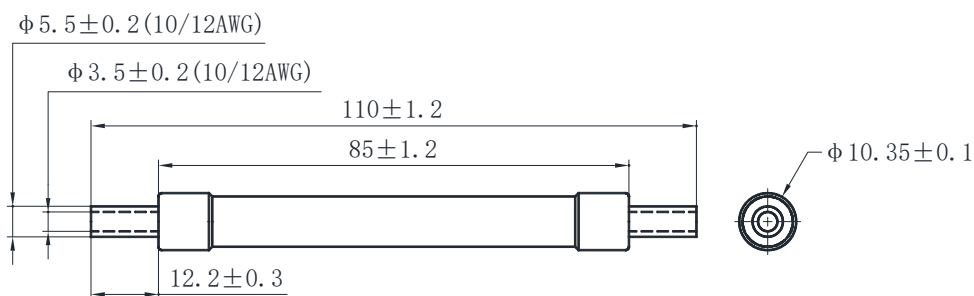


DIMENSIONS (mm)

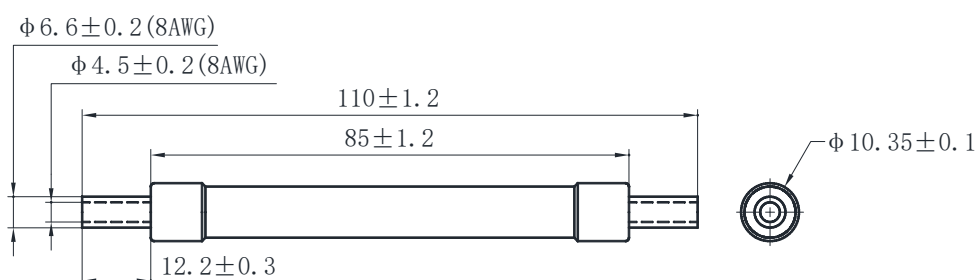
A85xxxxb00



A85xxxxb01



A85xxxxb02



A85xxxxb05

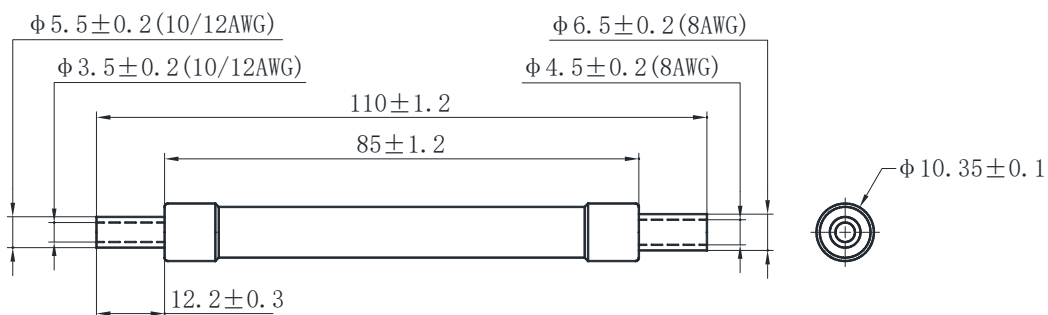


Table1

Packing information

Fuse Size	Box specifications (mm)	Packing quantity / per container	Weight / PCS (g)	Mounting Method	Mounting requirements
A85xxxxb00	410×215×160	792pcs	12.5±3%	BH300-BH301	-
A85xxxxb01	410×215×160	396pcs	17±3%	10/12 AWG	-
A85xxxxb02	410×215×160	396pcs	17.8±3%	8 AWG	-
A85xxxxb05	410×215×160	396pcs	18.3±3%	8/10/12AWG	-

Table 2
ELECTRICAL SPECIFICATIONS

Part Number				Rated Current	Ampere Code	Breaking Capacity	I ² t (A ² s)		Dissipation(W)		Certifications	
Cylindrical	10/12 AWG In-terminal	8 AWG In-terminal	8,10/12 AWG In-terminal				Pre-Arcing	Total	0.8 I _n	1.0 I _n	UL	TUV
A851100b00	A851100b01	A851100b02	A851100b05	1 A	1100	30 kA@ 1500 Vdc	59.15	125	0.8	1.6	•	•
A851200b00	A851200b01	A851200b02	A851200b05	2 A	1200		118.3	250	1.4	2.2	•	•
A851300b00	A851300b01	A851300b02	A851300b05	3 A	1300		177.5	375	1.7	2.5	•	•
A851400b00	A851400b01	A851400b02	A851400b05	4 A	1400		236.7	500	2.0	3.0	•	•
A851500b00	A851500b01	A851500b02	A851500b05	5 A	1500		295.8	625	2.8	3.5	•	•
A851600b00	A851600b01	A851600b02	A851600b05	6 A	1600		355.0	750	3.0	4.0	•	•
A851800b00	A851800b01	A851800b02	A851800b05	8 A	1800		473.3	1000	3.0	4.0	•	•
A852100b00	A852100b01	A852100b02	A852100b05	10 A	2100		591.7	1250	2.8	3.5	•	•
A852120b00	A852120b01	A852120b02	A852120b05	12 A	2120		710.0	1500	3.1	4.5	•	•
A852150b00	A852150b01	A852150b02	A852150b05	15 A	2150		887.5	1875	2.8	3.5	•	•
A852160b00	A852160b01	A852160b02	A852160b05	16 A	2160		946.4	2000	3.1	4.5	•	•
A852200b00	A852200b01	A852200b02	A852200b05	20 A	2200		710.0	1500	3.2	5.8	•	•
A852250b00	A852250b01	A852250b02	A852250b05	25 A	2250		887.5	1875	3.3	6.0	•	•
A852300b00	A852300b01	A852300b02	A852300b05	30 A	2300		1183.3	2500	3.6	6.8	•	•
A852320b00	A852320b01	A852320b02	A852320b05	32 A	2320		1760	3150	4.5	7.0	•	•

Table 3
TIME VS CURRENT CHARACTERISTIC

Standard	UL			IEC		
Rated Current	100 %	135 %	200 %	100 %	113 %	145 %
1-30A	Temperature Stabilization	<1 h	<4 min	Temperature Stabilization	>1 h	<1 h
32A	Temperature Stabilization	<1 h	<6 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.

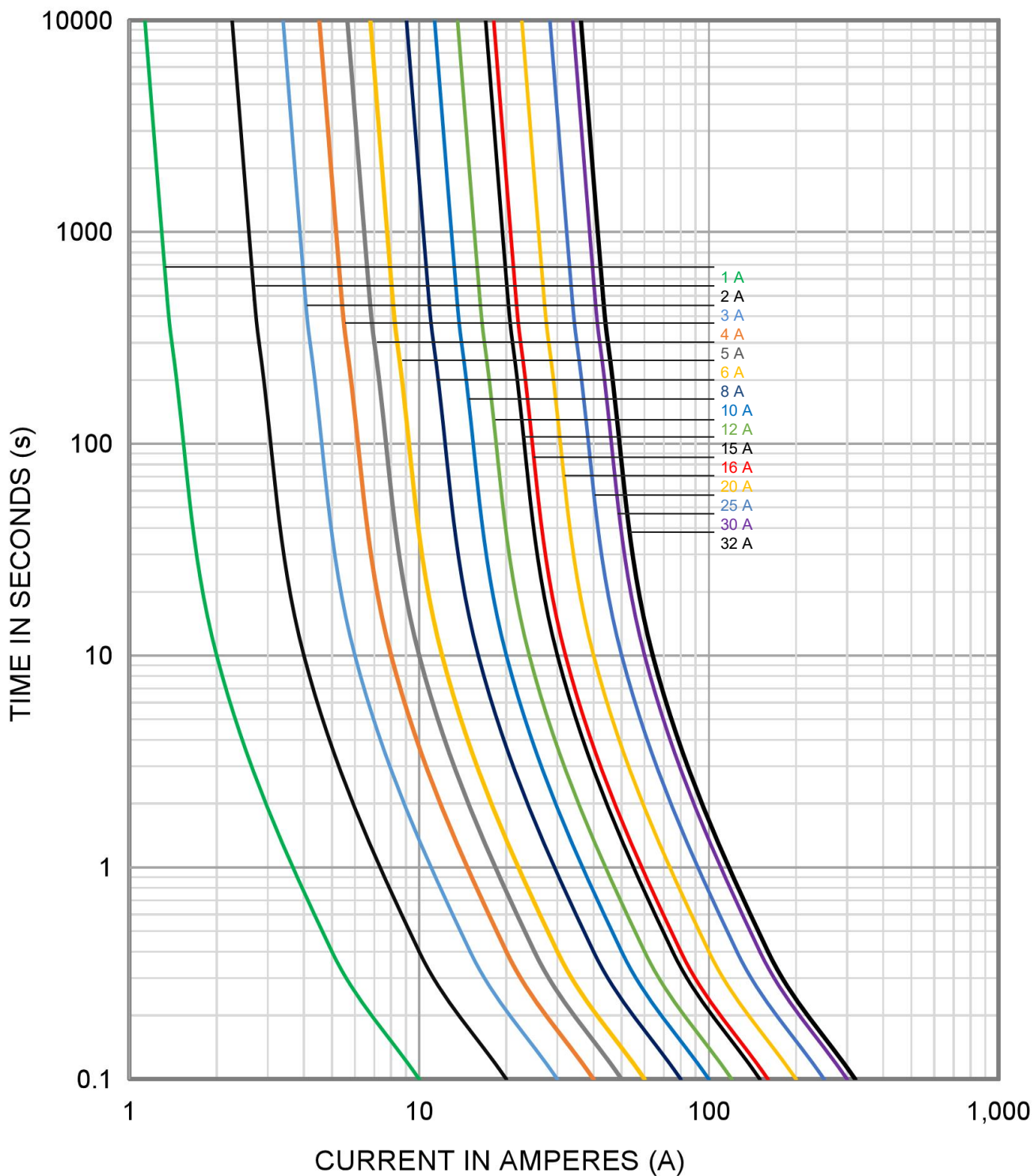
- Installation suggestion: Screw M6, Tightening torque 6±1N • m.
- Normal temperature: -5°C ~ 40°C, permissible operating temperature: -40°C-90°C.
- The altitude of the site of installation of the fuses should not exceed 2000 m above sea level and permissible altitude site of installation does not exceed 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.

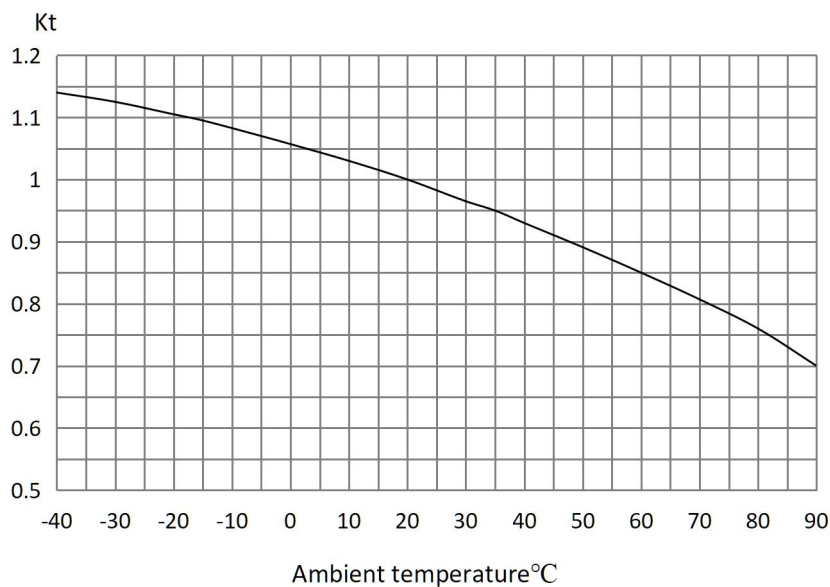
Time Current Curve (reference)

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.