



#### ● Features

- ✓ Standard Slim model ,Height 30mm
- ✓ Working temp: -30~+70℃ (refer to output derating curve)
- ✓ Protection: Short circuit / Over load/ Over voltage
- ✓ 100% aging test
- ✓ High-efficiency,high reliability
- ✓ 3 years warranty

#### ● Applications

Industrial control systems, machinery and electrical equipment, electronic instrumentation, industrial automation, household appliances, etc

#### ● Product certification:



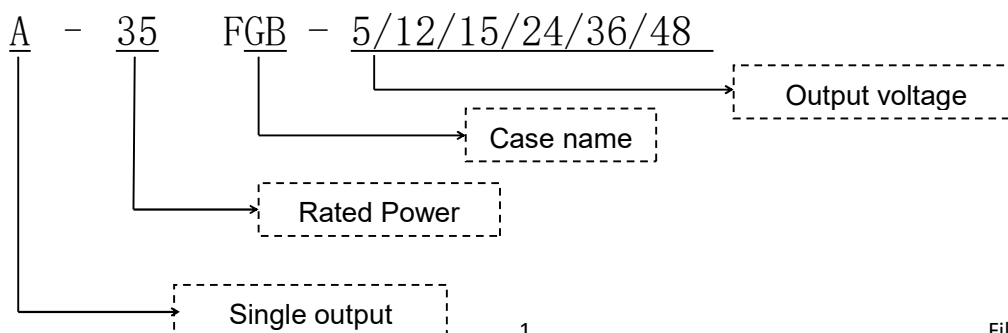
#### ● Reference standard

EN55035\EN61000-4-2,3,4,5,6,8,11\GB17625.1\EN61000-3-2,-3\EN55032\GB4943\UL1012

#### ● Product description

A-35FGB series is an industrial control power supply with 35w single-channel constant-voltage output. The input voltage range is 90-264 VAC, and the output voltage is 5v, 12v,15v, 24v,36v,48v etc. It can be applied to various industrial fields such as industrial control systems, machinery and electrical equipment, electronic instruments and meters, industrial automation, household appliances etc. The ultra-high efficiency, compact profile design, good heat dissipation, guarantee the long-term stable work of this series of products.

#### ● Product name



● **General Specifications**

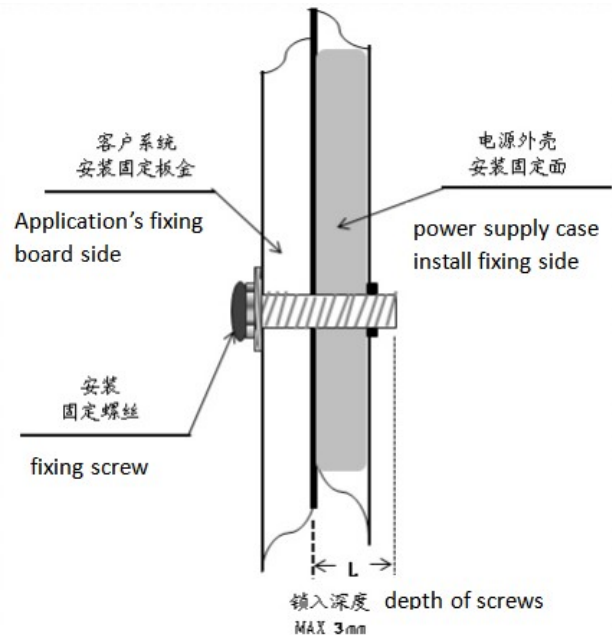
| Model       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | A-35FGB-5                                                                                                                                                                                                                         | A-35FGB-12 | A-35FGB-15 | A-35FGB-24 | A-35FGB-36 | A-35FGB-48 |
|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|------------|------------|------------|------------|
| Input       | Input voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 90~264VAC                                                                                                                                                                                                                         |            |            |            |            |            |
|             | Input current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 230VAC/0.42A ,115VAC/0.8A                                                                                                                                                                                                         |            |            |            |            |            |
|             | Efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ≥82%                                                                                                                                                                                                                              | ≥84%       | ≥85%       | ≥85%       | ≥86%       | ≥86%       |
|             | Frequency range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 47~63HZ                                                                                                                                                                                                                           |            |            |            |            |            |
|             | Leakage current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <1mA/240VAC                                                                                                                                                                                                                       |            |            |            |            |            |
|             | Inrush current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cold start 60A/230VAC                                                                                                                                                                                                             |            |            |            |            |            |
| Output      | DC voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5V                                                                                                                                                                                                                                | 12V        | 15V        | 24V        | 36V        | 48V        |
|             | Rated current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7A                                                                                                                                                                                                                                | 3A         | 2.4A       | 1.5A       | 1A         | 0.8A       |
|             | Rated power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 35W                                                                                                                                                                                                                               | 36W        | 36W        | 36W        | 36W        | 38.4W      |
|             | Voltage ADJ.range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 4.5~5.5V                                                                                                                                                                                                                          | 10.8~13.2V | 13.5~16.5V | 21.6~26.4V | 33~39V     | 44~52V     |
|             | Ripple & Noise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 100mVp-p                                                                                                                                                                                                                          | 120mVp-p   | 120mVp-p   | 150mVp-p   | 200mVp-p   | 200mVp-p   |
|             | Set up,rise                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2500ms, 30ms/230VAC 100% load                                                                                                                                                                                                     |            |            |            |            |            |
|             | hold up time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 20ms/230VAC 100% load                                                                                                                                                                                                             |            |            |            |            |            |
|             | Line regulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ±0.5%                                                                                                                                                                                                                             | ±0.5%      | ±0.5%      | ±0.5%      | ±0.5%      | ±0.5%      |
|             | Load regulation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ±2.0%                                                                                                                                                                                                                             | ±1.0%      | ±1.0%      | ±1.0%      | ±1.0%      | ±1.0%      |
|             | Voltage accuracy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ±2.0%                                                                                                                                                                                                                             | ±1.0%      | ±1.0%      | ±1.0%      | ±1.0%      | ±1.0%      |
| EMC         | EMS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Design refer :EN55035 ;EN61000-4-2,3,4,5,6,8,11                                                                                                                                                                                   |            |            |            |            |            |
|             | Harmonic current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Design refer :GB17625.1;EN61000-3-2,-3 rated                                                                                                                                                                                      |            |            |            |            |            |
|             | EMI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Design refer :EN55032,Class B                                                                                                                                                                                                     |            |            |            |            |            |
| Safety      | Safety Standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Design refer :GB4943/UL1012                                                                                                                                                                                                       |            |            |            |            |            |
|             | Withstand voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | I/P-O/P:3KVac/7mA; I/P-CASE:1.5KVac/7mA; O/P-CASE:0.5KVDC/7mA 1min for each test                                                                                                                                                  |            |            |            |            |            |
|             | Isolation resistance                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | I/P-O/P: 100M ohms; I/P-Case:100M ohms; O/P-Case:100M ohms                                                                                                                                                                        |            |            |            |            |            |
|             | Leakage current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | I/P-FG≤0.75mA; (Input 240Vac, Frequency 50Hz)                                                                                                                                                                                     |            |            |            |            |            |
| Protection  | Over Voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5.75~6.5V                                                                                                                                                                                                                         | 13.5~16V   | 16.8~19.5V | 27~32V     | 40~48V     | 53~60V     |
|             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Voltage limited                                                                                                                                                                                                                   |            |            |            |            |            |
|             | Over Load                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 110~160% rated Hiccup mode,auto-recovery                                                                                                                                                                                          |            |            |            |            |            |
|             | Over Temp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | /                                                                                                                                                                                                                                 |            |            |            |            |            |
|             | Short Current                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Hiccup mode,auto-recovery                                                                                                                                                                                                         |            |            |            |            |            |
| Environment | Working Temp&humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -30~70℃ 20%~95%RH non-condensing (Refer to Derating Curve)                                                                                                                                                                        |            |            |            |            |            |
|             | Storage Temp&humidity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | -40℃~85℃; 10%~95%RH non-condensing                                                                                                                                                                                                |            |            |            |            |            |
|             | Vibration                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 10~500Hz,2G, 10min/1 cycle,60min.each along X,Y, Z axes                                                                                                                                                                           |            |            |            |            |            |
|             | Impact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 20G, last 11mS, 3 impacts along X, y and Z axes                                                                                                                                                                                   |            |            |            |            |            |
|             | Altitude                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 5000mtrs ,the ambient temperature derating of 0.6 ℃/100m for operating altitude higher than 2000m                                                                                                                                 |            |            |            |            |            |
| Reliability | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Under 25℃ :100000Hrs, MIL-217 Method                                                                                                                                                                                              |            |            |            |            |            |
| Others      | Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 99*82*30 mm (L*W*H)                                                                                                                                                                                                               |            |            |            |            |            |
|             | Packing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.2Kg/PC,60PCS/CTN, 14KG/CTN                                                                                                                                                                                                      |            |            |            |            |            |
|             | Cold mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> free air convection <input type="checkbox"/> with fan                                                                                                                                         |            |            |            |            |            |
|             | More options                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | <input checked="" type="checkbox"/> PCB double side conformal coating <input checked="" type="checkbox"/> Terminal with cover <input checked="" type="checkbox"/> low temp start (-40℃) <input checked="" type="checkbox"/> Other |            |            |            |            |            |
| Note        | <p>*In order to extend the service life, it is recommended to leave 30% more allowance when loading. For example, if the equipment needs 100W power, please choose the power supply over 130W.</p> <p>*Ripple&amp;noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf &amp; 47uf parallel capacitor.</p> <p>*All parameters NOT specially mentioned are measured at 230VAC input,rated load and 25℃ of ambient temperature.</p> <p>*the auxiliary heat dissipation of aluminum plate with an area of 400 * 400 * 3mm must be used when full load working.</p> <p>*The power supply is considered a component which will be installed into a final equipment.The final equipment must be re-confirmed that it still meets EMC directives.All our EMC tests are carried out by mounting samples on metal plates.</p> |                                                                                                                                                                                                                                   |            |            |            |            |            |



## ● Installation

### Warning

- Use mounting screws by M3\*6mm,
- Max depth of screws into housing is 3mm,
- Right picture with more details.



## ● Use instructions:

- 1、 please follow the installation instructions when use the power supply.
- 2、 Before power on test run after installation, please check and proofread the wiring on each terminal, make sure that the input and output, AC and DC, positive and negative, voltage and current values are correct, prevent the occurrence of wrong connection, and avoid damaging the power supply and user equipment.
- 3、 Before power on, please use a multimeter to measure whether the live wire, zero wire and ground wire are short circuited, and whether the output terminal is short circuited; it is better to start without load when power on.
- 4、 Do not exceed the nominal value of the power supply when using, so as not to affect the reliability of the product. If you need to change the output parameters of the power supply, please consult our technical department before using.
- 5、 In order to ensure the safety of use and reduce interference, please ensure that the grounding terminal is reliably grounded (ground wire please thicker than AWG18#)。
- 6、 If the power supply fails, please do not repair it without permission. Please contact our customer service department as soon as possible, customer service line: 86-519-85215050。

## ● Transport、storage:

### 1、Transport:

The package is suitable for shipping by automobiles, ships, airs, trains, etc. During transportation, it shall be rain proof,loaded and unloaded gently。

### 2、Storage:

When the product is not in use, it shall be placed in the packing box. The storage environment temperature and relative humidity shall meet the requirements of the product. No corrosive gas or product in the warehouse, and no strong mechanical vibration, impact and strong magnetic field. The packing box shall be padded at least 20cm above the ground, and not be soaked. If the storage time is too long (more than 1 year), it shall be rechecked by professionals before use.