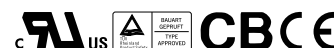




## ■ Features :

- AC input range selected by switch
- Protections: Short circuit/Over load/Over voltage
- Cooling by free air convection
- 100% full load burn-in test
- Fixed switching frequency at 28KHz
- 2 years warranty

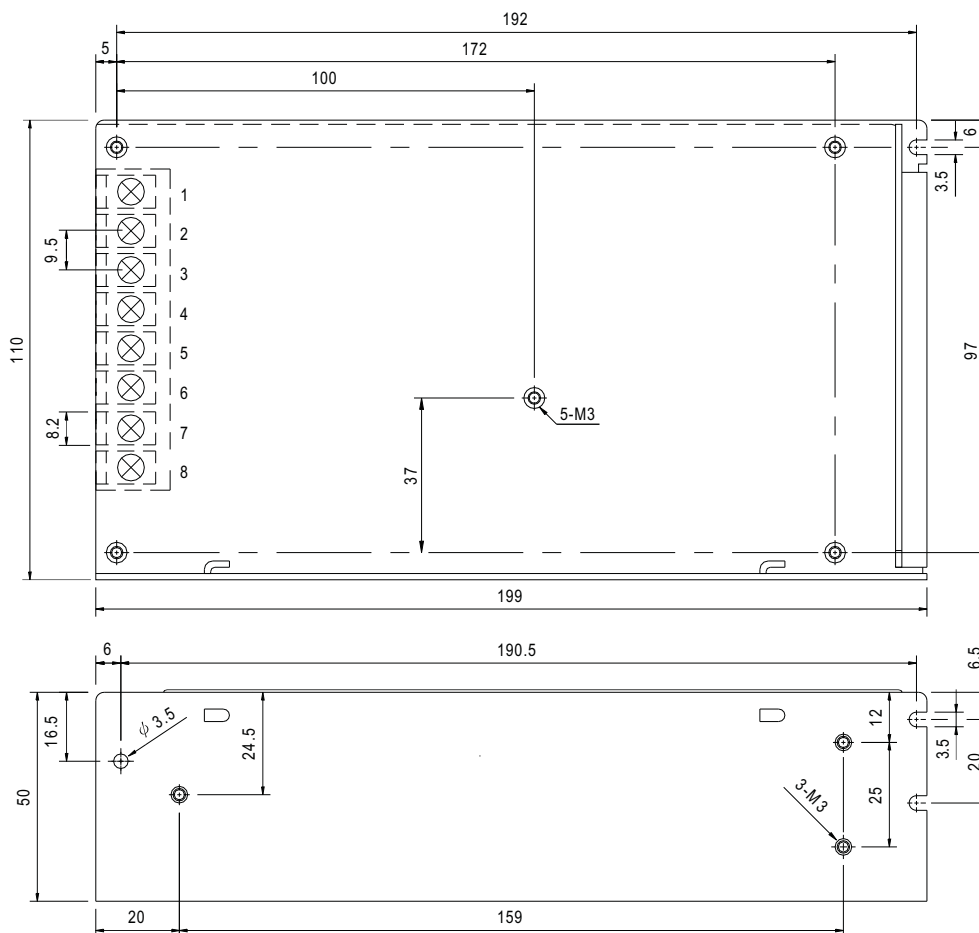


## SPECIFICATION

| MODEL                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | D-120A                                                                                           |          | D-120B       |          |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------|--------------|----------|
| OUTPUT                                  | OUTPUT NUMBER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | CH1                                                                                              | CH2      | CH1          | CH2      |
|                                         | DC VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 5V                                                                                               | 12V      | 5V           | 24V      |
|                                         | RATED CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 12A                                                                                              | 5A       | 6A           | 4A       |
|                                         | CURRENT RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 2 ~ 12A                                                                                          | 0.5 ~ 5A | 2 ~ 10A      | 0.4 ~ 4A |
|                                         | RATED POWER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 120W                                                                                             |          | 126W         |          |
|                                         | RIPPLE & NOISE (max.) <small>Note.2</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 60mVp-p                                                                                          | 120mVp-p | 60mVp-p      | 150mVp-p |
|                                         | VOLTAGE ADJ. RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | CH1: 4.75 ~ 5.5V                                                                                 |          |              |          |
|                                         | VOLTAGE TOLERANCE <small>Note.3</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ±2.0%                                                                                            | ±6.0%    | ±2.0%        | ±7.0%    |
|                                         | LINE REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ±0.5%                                                                                            | ±1.0%    | ±0.5%        | ±1.0%    |
|                                         | LOAD REGULATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | ±0.5%                                                                                            | ±5.0%    | ±0.5%        | ±6.0%    |
| SETUP, RISE, HOLD TIME                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 200ms, 50ms, 20ms at full load                                                                   |          |              |          |
| INPUT                                   | VOLTAGE RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 88 ~ 132VAC/176 ~ 264VAC selected by switch                                                      |          | 248 ~ 370VDC |          |
|                                         | FREQUENCY RANGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 47 ~ 63Hz                                                                                        |          |              |          |
|                                         | EFFICIENCY (Typ.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 78%                                                                                              |          | 80%          |          |
|                                         | AC CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 2.8A/115VAC      1.6A/230VAC                                                                     |          |              |          |
|                                         | INRUSH CURRENT (max.)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | COLD START 35A                                                                                   |          |              |          |
|                                         | LEAKAGE CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | <3.5mA / 240VAC                                                                                  |          |              |          |
| PROTECTION                              | OVER LOAD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 105 ~ 135% rated output power<br>Protection type : Shut down o/p voltage, re-power on to recover |          |              |          |
|                                         | OVER VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | CH1:5.75 ~ 6.75VDC<br>Protection type : Shut down o/p voltage, re-power on to recover            |          |              |          |
|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                  |          |              |          |
| ENVIRONMENT                             | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | -10 ~ +60℃ (Refer to output load derating curve)                                                 |          |              |          |
|                                         | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 20 ~ 90% RH non-condensing                                                                       |          |              |          |
|                                         | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | -20 ~ +85℃, 10 ~ 95% RH                                                                          |          |              |          |
|                                         | TEMP. COEFFICIENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | ±0.03%/℃ (0~50℃) on +5V output                                                                   |          |              |          |
|                                         | VIBRATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 10 ~ 500Hz, 2G 10min./1cycle, 60min. each along X, Y, Z axes                                     |          |              |          |
| SAFETY & EMC<br><small>(Note 4)</small> | SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | UL60950-1, TUV EN60950-1 Approved                                                                |          |              |          |
|                                         | WITHSTAND VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | I/P-O/P:3KVAC    I/P-FG:1.5KVAC    O/P-FG:0.5KVAC                                                |          |              |          |
|                                         | ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | I/P-O/P, I/P-FG, O/P-FG:100M Ohms/500VDC                                                         |          |              |          |
|                                         | EMI CONDUCTION & RADIATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Compliance to EN55022 (CISPR22) Class B                                                          |          |              |          |
|                                         | HARMONIC CURRENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Compliance to EN61000-3-2,-3                                                                     |          |              |          |
|                                         | EMS IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Compliance to EN61000-4-2,3,4,5,6,8,11; ENV50204, EN55024, Light industry level, criteria A      |          |              |          |
| OTHERS                                  | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 272.8K hrs min.    MIL-HDBK-217F (25℃)                                                           |          |              |          |
|                                         | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 199*110*50mm (L*W*H)                                                                             |          |              |          |
|                                         | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.82Kg; 16pcs/14.2Kg/0.95CUFT                                                                    |          |              |          |
| NOTE                                    | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25℃ of ambient temperature.<br>2. Ripple & noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1uf & 47uf parallel capacitor.<br>3. Tolerance : includes set up tolerance, line regulation and load regulation.<br>4. 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. |                                                                                                  |          |              |          |

## Mechanical Specification

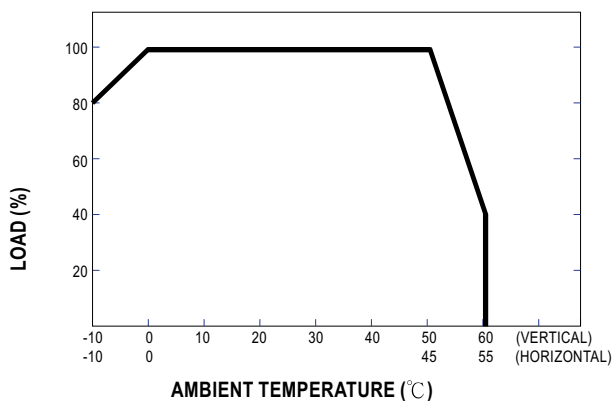
Case No. 906 Unit:mm



Terminal Pin. No Assignment

| Pin No. | Assignment | Pin No. | Assignment    |
|---------|------------|---------|---------------|
| 1       | AC/L       | 4       | DC OUTPUT +V2 |
| 2       | AC/N       | 5,6     | DC OUTPUT COM |
| 3       | FG $\perp$ | 7,8     | DC OUTPUT +V1 |

## Derating Curve



## Static Characteristics(B)

