

■ Features :

- Universal AC input/Full range
- Protections: Short circuit / Overload / Over voltage / Over temperature
- Cooling by free air convection
- Can be installed on DIN rail TS-35/7.5 or 15
- UL 508(industrial control equipment)approved
- LED indicator for power on
- 100% full load burn-in test
- Fix switching frequency at 100KHz

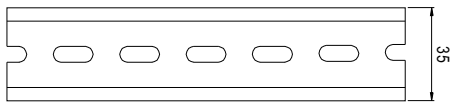
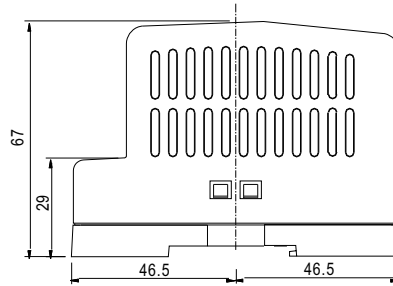


**SPECIFICATION**

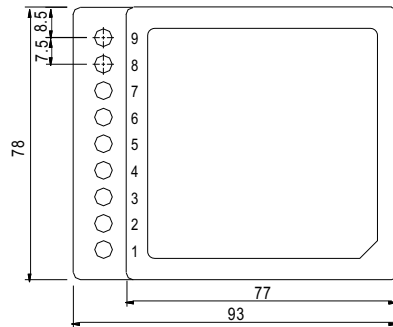
| MODEL                 | DR-4505   | DR-4512   | DR-4515      | DR-4524        |              |
|-----------------------|---|---|--------------|----------------|--------------|
| OUTPUT                | DC VOLTAGE  | 5V  | 12V          | 15V            | 24V          |
|                       | RATED CURRENT   | 5A  | 3.5A         | 2.8A           | 2A           |
|                       | CURRENT RANGE   | 0 ~ 5A  | 0 ~3. 5A     | 0 ~ 2.8A       | 0 ~ 2A       |
|                       | RATED POWER   | 25W   | 42W          | 42W            | 48W          |
|                       | RIPPLE & NOISE (max.) Note.2  | 100mVp-p  | 200mVp-p     | 240mVp-p       | 480mVp-p     |
|                       | VOLTAGE ADJ. RANGE  | 4.75 ~ 5.5V   | 10.8 ~ 13.2V | 13.5 ~ 16.5V   | 21.6 ~ 26.4V |
|                       | VOLTAGE TOLERANCE Note.3  | ±2.0%   | ±1.0%        | ±1.0%          | ±1.0%        |
|                       | LINE REGULATION   | ±1.0%   | ±1.0%        | ±1.0%          | ±1.0%        |
|                       | LOAD REGULATION   | ±1.0%   | ±1.0%        | ±1.0%          | ±1.0%        |
|                       | SETUP, RISE TIME  | 800ms, 60ms/230VAC at full load   |              |                |              |
| HOLD UP TIME (Typ.)   | 100ms/230VAC at full load   |   |              |                |              |
| INPUT                 | VOLTAGE RANGE   | 85 ~ 264VAC 120 ~ 370VDC  |              |                |              |
|                       | FREQUENCY RANGE   | 47 ~ 63Hz   |              |                |              |
|                       | EFFICIENCY (Typ.)   | 72%   | 77%          | 77%            | 80%          |
|                       | AC CURRENT (Typ.)   | 1.5A/115VAC 0.75A/230VAC  |              |                |              |
|                       | INRUSH CURRENT (Typ.)   | COLD START 28A/115VAC 56A/230VAC  |              |                |              |
|                       | LEAKAGE CURRENT   | <1mA/ 240VAC  |              |                |              |
| PROTECTION            | OVERLOAD  | 105 ~ 150% rated output power<br>Protection type : Constant current limiting, recovers automatically after fault condition is removed |              |                |              |
|                       | OVER VOLTAGE  | 5.75 ~ 6.75V  | 13.8 ~ 16.2V | 17.25 ~ 20.25V | 27.6 ~ 32.4V |
|                       | OVER TEMPERATURE  | Tj 135°C typically (U1) detect on heat sink of power transistor<br>Protection type : Shut down o/p voltage, re-power on to recover    |              |                |              |
| ENVIRONMENT           | WORKING TEMP.   | -10 ~ +50°C (Refer to output load derating curve)   |              |                |              |
|                       | WORKING HUMIDITY  | 20 ~ 90% RH non-condensing  |              |                |              |
|                       | STORAGE TEMP., HUMIDITY   | -20 ~ +85°C, 10 ~ 95% RH  |              |                |              |
|                       | TEMP. COEFFICIENT   | ±0.03%/°C (0 ~ 50°C)  |              |                |              |
|                       | VIBRATION   | 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes; Mounting: Compliance to IEC60068-2-6                         |              |                |              |
| SAFETY & EMC (Note 4) | SAFETY STANDARDS  | UL508, 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 EN55011,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, EN61000-6-2 (EN50082-2), heavy industry level, criteria A                  |              |                |              |
| OTHERS                | MTBF  | 364.6K hrs min. MIL-HDBK-217F (25°C)  |              |                |              |
|                       | DIMENSION   | 93*78*67mm (L*W*H)  |              |                |              |
|                       | PACKING   | 0.31Kg; 48pcs/16.1Kg/1.3CUFT  |              |                |              |
| NOTE                  | <ol style="list-style-type: none"> <li>1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°C of ambient temperature.</li> <li>2. 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.</li> <li>3. Tolerance : includes set up tolerance, line regulation and load regulation.</li> <li>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.</li> </ol> |   |              |                |              |

**Mechanical Specification**

Case No. 918A Unit:mm



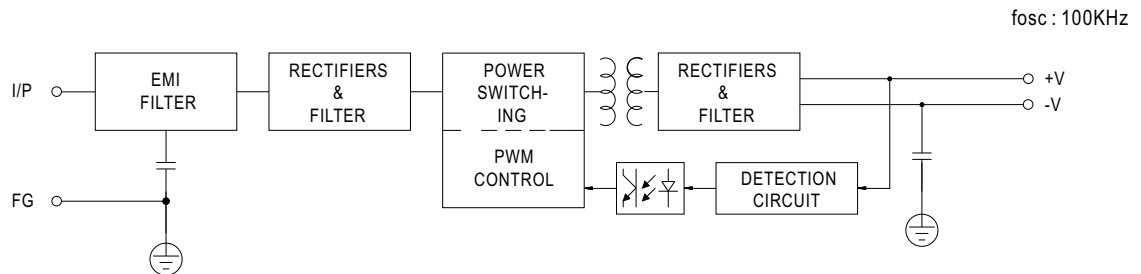
Install DIN rail TS35/7.5 or TS35/15



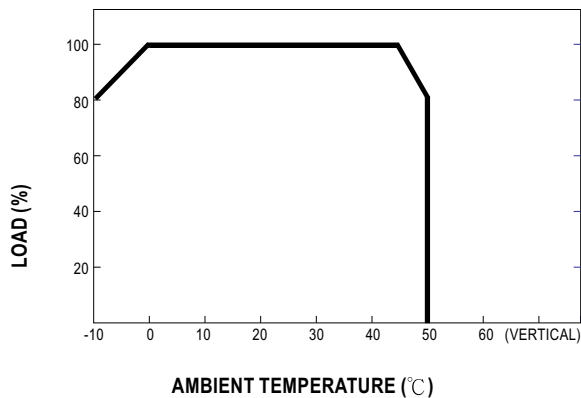
Terminal Pin No. Assignment

| Pin No. | Assignment   | Pin No. | Assignment  |
|---------|--------------|---------|-------------|
| 1       | AC/L         | 6,7     | DC OUTPUT+V |
| 2       | AC/N         | 8       | LED         |
| 3       | FG ⊕         | 9       | +V ADJ.     |
| 4,5     | DC OUTPUT -V |         |             |

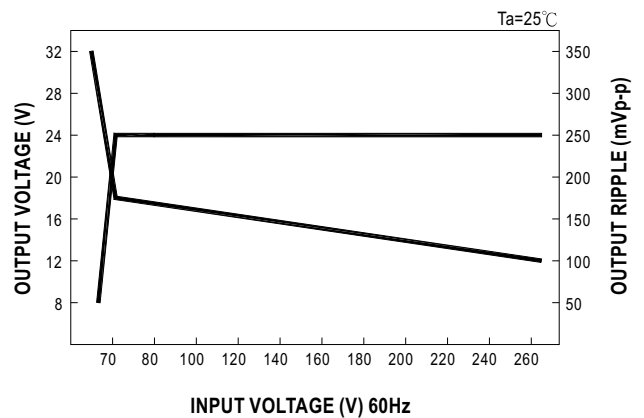
**Block Diagram**



**Derating Curve**



**Static Characteristics (24V)**





## DIRECCIÓN Y TELEFONOS DE CONTACTOS

**AMV ELECTRONICA SL**  
**C/NAVA Nº 7 – BAJO**  
**33207 GIJON**  
**ASTURIAS**  
**ESPAÑA**  
**FAX 00 34 985346795**

**PAGINA WEB : [www.amvelectronica.com](http://www.amvelectronica.com)**

## TELEFONOS EMAIL DE CONTACTO

| DEPARTAMENTO                   | RESPONSABLE     | Teléfono          | e-MAIL   |
|--------------------------------|-----------------|-------------------|--|
| Comercial y Ventas             | Gracia Nomparte | 985319171 Ext. 10 | <a href="mailto:gracia@amvelectronica.com">gracia@amvelectronica.com</a>                 |
| Ingeniería                     | Víctor Viña     | 985319171 Ext. 18 |  |
| Producción                     | Jenaro Blanco   |                   | <a href="mailto:compras@amvelectronica.com">compras@amvelectronica.com</a>               |
| Servicio de Asistencia Técnica | Alejandro Arce  | 985319171 Ext. 17 | <a href="mailto:sat@amvelectronica.com">sat@amvelectronica.com</a>                       |
| Administración                 | Laura Granda    | 985319171 Ext. 12 | <a href="mailto:administracion@amvelectronica.com">administracion@amvelectronica.com</a> |



ELECTRONICA

C/ NAVA Nº 7 BAJO  
33207 GIJON (ASTURIAS)  
TFNO 985 319171 FAX 985 346795  
Email: amv@amvelectronica.com

[www.amvelectronica.com](http://www.amvelectronica.com)

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LA GARANTÍA SE ENTIENDE EN NUESTROS TALLERES, SIENDO POR CUENTA DEL USUARIO LOS COSTES DEL TRANSPORTE.

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