



### ■ Features

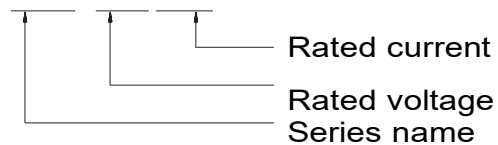
- AC/DC desktop type power unit
- High efficiency
- Universal AC input / Full range(90-264V~)
- Built- in active PFC function
- High frequency switching mode
- Protection: Short circuit / Over voltage /Over temperature
- 1 years warranty

### ■ Applications

- IT equipment or Radio system
- Machine room
- Surveillance system
- Home appliances

### ■ Mode Encoding

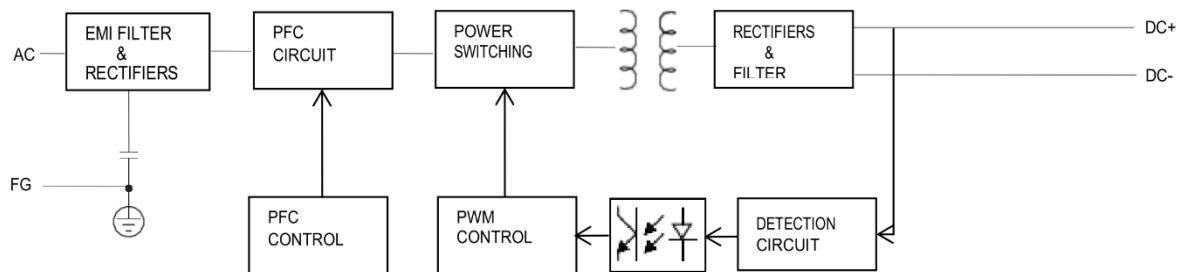
**G300-XXXXYY**



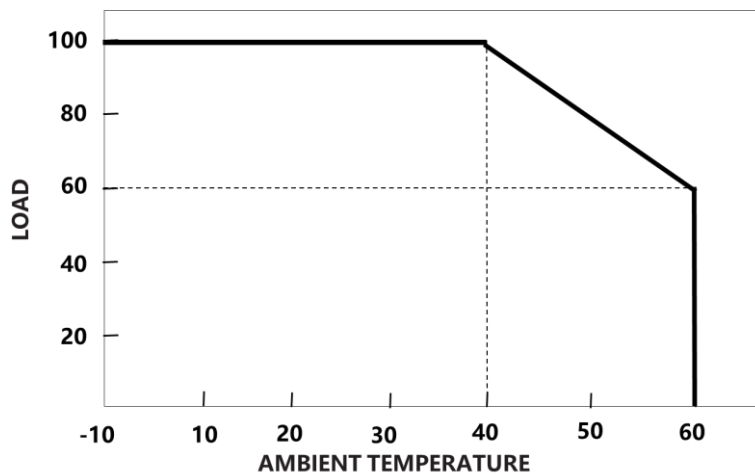
**SPECIFICATION**

| MODEL                  |                                                                                                                                                                                                                                                                                                                                                                                                 | G300-120180                                                                                                                       | G300-240125        | G300-360083 | G300-420071 | G300-480062       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|--------------------|-------------|-------------|-------------------|
| OUTPUT                 | Voltage                                                                                                                                                                                                                                                                                                                                                                                         | 12.0V±5%                                                                                                                          | 24.0V±5%           | 36.0V±5%    | 42.0V±5%    | 48.0V±5%          |
|                        | current                                                                                                                                                                                                                                                                                                                                                                                         | 0-18A                                                                                                                             | 0-12.5A            | 0-8.3A      | 0-7.1A      | 0-6.2A            |
|                        | Rated power                                                                                                                                                                                                                                                                                                                                                                                     | 216W                                                                                                                              | 300W               | 298.8W      | 298.2W      | 297.6W            |
|                        | Voltage regulation                                                                                                                                                                                                                                                                                                                                                                              | 1%                                                                                                                                |                    |             |             |                   |
|                        | Load regulation                                                                                                                                                                                                                                                                                                                                                                                 | 5%                                                                                                                                |                    |             |             |                   |
|                        | Start-up time                                                                                                                                                                                                                                                                                                                                                                                   | 300mS(Input:115VAC Output: Full load)                                                                                             |                    |             |             |                   |
|                        | Rise time                                                                                                                                                                                                                                                                                                                                                                                       | 30mS (Input:115VAC Output: Full load)                                                                                             |                    |             |             |                   |
|                        | Hold time                                                                                                                                                                                                                                                                                                                                                                                       | 20mS (Input:115VAC Output: Full load)                                                                                             |                    |             |             |                   |
|                        | Ripple voltage                                                                                                                                                                                                                                                                                                                                                                                  | <output voltage*1% (20MHz , AC coupling mode, connected in parallel with 0.1uf ceramic capacitor and 47uf electrolytic capacitor) |                    |             |             |                   |
|                        | Power LED                                                                                                                                                                                                                                                                                                                                                                                       | Red                                                                                                                               |                    |             |             |                   |
| INPUT                  | Rated input voltage                                                                                                                                                                                                                                                                                                                                                                             | 100 - 240VAC 50 / 60Hz                                                                                                            |                    |             |             |                   |
|                        | Input voltage range Note.2                                                                                                                                                                                                                                                                                                                                                                      | 90 - 264VAC                                                                                                                       |                    |             |             |                   |
|                        | Power factor (Typ.)                                                                                                                                                                                                                                                                                                                                                                             | PF>0.98 @Full load, Input:115VAC ; PF>0.94 @Full load, Input:230VAC                                                               |                    |             |             |                   |
|                        | Input current (Typ.)                                                                                                                                                                                                                                                                                                                                                                            | 4.5A@100VAC                                                                                                                       |                    |             |             |                   |
|                        | Inrush current (Typ.)                                                                                                                                                                                                                                                                                                                                                                           | 75A/230VAC (cold start)                                                                                                           |                    |             |             |                   |
|                        | Standby input power                                                                                                                                                                                                                                                                                                                                                                             | <0.2W                                                                                                                             |                    |             |             |                   |
|                        | Efficiency (Typ.)                                                                                                                                                                                                                                                                                                                                                                               | 94%                                                                                                                               | 95%                | 95%         | 95%         | 95%               |
| PROTECTION             | Short circuit                                                                                                                                                                                                                                                                                                                                                                                   | Protection type : Shut down output                                                                                                |                    |             |             |                   |
|                        | Over voltage                                                                                                                                                                                                                                                                                                                                                                                    | Protection type : Shut down output                                                                                                |                    |             |             |                   |
|                        | Over current                                                                                                                                                                                                                                                                                                                                                                                    | Protection type : Shut down output (110-160%)                                                                                     |                    |             |             |                   |
|                        | Over temperature                                                                                                                                                                                                                                                                                                                                                                                | Protection type : Shut down output                                                                                                |                    |             |             |                   |
| ENVIRONMENT            | Working temperature                                                                                                                                                                                                                                                                                                                                                                             | -10 - +40°C (Refer to " Derating Curve")                                                                                          |                    |             |             |                   |
|                        | Working humidity                                                                                                                                                                                                                                                                                                                                                                                | 0 - 90% RH                                                                                                                        |                    |             |             |                   |
|                        | Storage temperature, humidity                                                                                                                                                                                                                                                                                                                                                                   | -40 - +70°C, 0 - 95% RH                                                                                                           |                    |             |             |                   |
|                        | Cooling                                                                                                                                                                                                                                                                                                                                                                                         | Natural convection                                                                                                                |                    |             |             |                   |
|                        | Vibration resistance                                                                                                                                                                                                                                                                                                                                                                            | 10-50Hz,2G10min.1cycle,60min.eachalongX,Y,Zaxes                                                                                   |                    |             |             |                   |
| SAFETY&EMC<br>(Note.3) | Max. temperature rise                                                                                                                                                                                                                                                                                                                                                                           | < 40°C on casing                                                                                                                  |                    |             |             |                   |
|                        | Hi-Pot Insulation                                                                                                                                                                                                                                                                                                                                                                               | i/p to o/p: 3000V (1 min)                                                                                                         |                    |             |             |                   |
|                        | Safety approval                                                                                                                                                                                                                                                                                                                                                                                 | CE/CCC/cTUVus/CB                                                                                                                  |                    |             |             |                   |
|                        | EMC Emission                                                                                                                                                                                                                                                                                                                                                                                    | Parameter                                                                                                                         | Standard           |             |             | Test Level I Note |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                 | Conducted                                                                                                                         | EN55032 FCC PART15 |             |             | Class B           |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                 | Radiated                                                                                                                          | EN55032 FCC PART15 |             |             | Class B           |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                 | Harmonic Current                                                                                                                  | EN61000-3-2        |             |             | .....             |
|                        |                                                                                                                                                                                                                                                                                                                                                                                                 | Voltage Flicker                                                                                                                   | EN61000-3-3        |             |             | .....             |
| EMC IMMUNITY           | EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-8, EN61000-4-11                                                                                                                                                                                                                                                                                                      |                                                                                                                                   |                    |             |             |                   |
| OTHERS                 | MTBF                                                                                                                                                                                                                                                                                                                                                                                            | 30000H                                                                                                                            |                    |             |             |                   |
|                        | Dimension                                                                                                                                                                                                                                                                                                                                                                                       | 220*105*43 (L*W*H)                                                                                                                |                    |             |             |                   |
|                        | Weight                                                                                                                                                                                                                                                                                                                                                                                          | 1300g                                                                                                                             |                    |             |             |                   |
| NOTE                   | 1. All parameters NOT specially mentioned are measured at 230VAC input, rated load and 25°Cof ambient temperature.<br>2. Derating may be needed under low input voltages. Please check the derating curve for more details.<br>3. The power unit is considered as an independent unit, but the final equipment still need to re-confirm that the whole system complies with the EMC directives. |                                                                                                                                   |                    |             |             |                   |

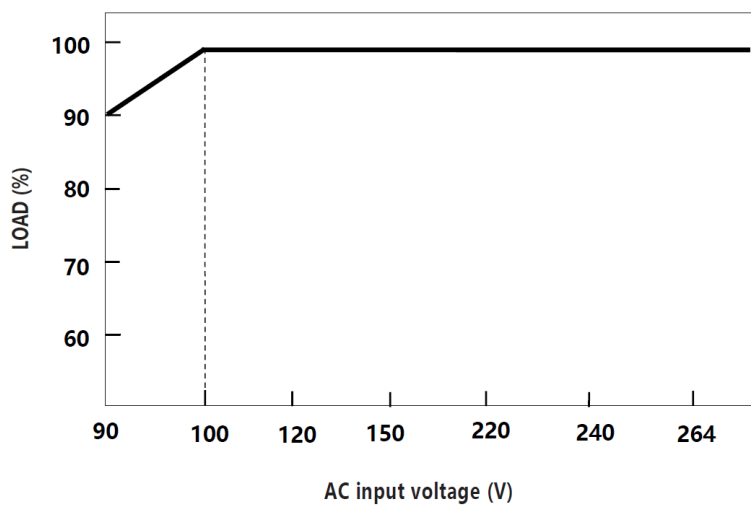
### ■ Block Diagram



### ■ Derating Curve



### ■ Static Characteristics



■ Mechanical specification

