



**Features:**

- Universal AC input range(90~264Vac)
- Universal DC input range(127~370Vdc)
- Built-in active PFC,PF>0.95
- High efficiency up to 87%
- Built-in current limiting circuit
- Output protections: OVP/OLP/SCP/OTP
- Wide operating ambient temp (-20°C~70°C)
- Can be installed on TS-35/7.5 or TS-35/15
- 100% full load burn-in test
- Suitable for critical applications
- Ultra-slim,70mm width
- Free air convection
- High efficiency, long life and high reliability
- 2 years warranty

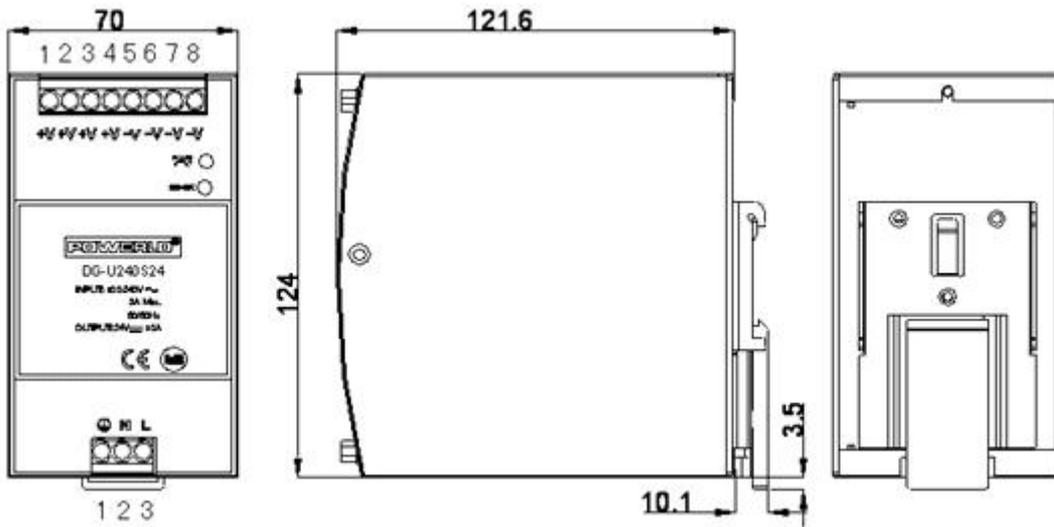


**SPECIFICATION**

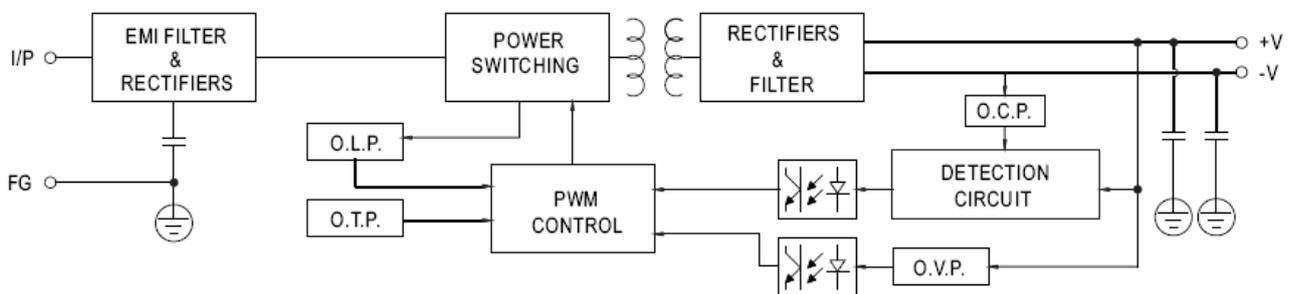
| MODEL                    | DG-U240S-24  |   |
|--------------------------|--|---|
| OUTPUT                   | DC Output  | 24V   |
|                          | Rated Current  | 10A @24 V; 9A @28V  |
|                          | Current Range  | Note 1<br>0~10A   |
|                          | Ripple and Noise   | 0~70°C<br>≤120mV  |
|                          | Note 2   | -25°C<br>≤240mV   |
|                          | Voltage ADJ. Range   | 24~28V  |
|                          | Voltage Accuracy   | ±5.0%   |
|                          | Line Regulation  | ±0.5%   |
|                          | Load Regulation  | ±1.0%   |
|                          | Set-up Time  | <2S@230Vac  |
|                          | Hold up Time   | ≥20mS(230Vac input, Full load)  |
|                          | Temperature Coefficient  | ±0.03%/°C   |
| Overshoot and Undershoot | <5.0%  |   |
| INPUT                    | Voltage Range  | 90Vac~264Vac  |
|                          | Frequency Range  | 47Hz~63Hz   |
|                          | Power Factor (typical)   | 0.99/110Vac 0.95/230Vac   |
|                          | Efficiency ( Typical)  | 87%   |
|                          | AC Current (max.)  | <2.5A Max/230Vac  |
|                          | Inrush Current (Typical)   | <60A/230Vac Cold start  |
|                          | Leakage Current  | Input—output:<0.25mA Input—PG:<3.5mA  |
| PROTECTION               | Over Load  | Constant current 10.5A-11.5A limiting out current   |
|                          | Over voltage   | 29~33V, constant voltage, Auto recovery   |
|                          | Over temperature   | 83°C @ rated input, full-load output, shut down O/P, auto recovery after temperature goes down. |
|                          | Short Circuit  | Long-term mode, auto recovery   |
| ENVIRONMENT              | Operating amb. Temp. & Hum.  | -20°C~70°C; 20%~90%RH No condensing   |
|                          | Storage Temp. & Hum.   | -40°C~85°C; 5%~95%RH No condensing  |
| SAFETY & EMC<br>Note 3   | Safety Standards   | EN60950-1 certified   |
|                          | Withstand Voltage  | Primary-Secondary:3.0kVac; ≤10mA .Primary-PG:1.5kVac; ≤10mA. Secondary-PG:0.5kVac≤10mA.         |
|                          | Isolation Resistance   | ≥10M ohms   |
|                          | EMC Emission   | Compliance to EN55022, EN55024, Class A   |
|                          | Harmonic Current   | Compliance to EN61000-3-2, CLASS A  |
| OTHERS                   | EMC Immunity   | Compliance to EN61000-4-2,3,4,5,6,11; heavy industry level                                      |
|                          | MTBF (MIL-HDBK-217F)   | More than 300,000Hrs (25°C, Full load)  |
|                          | Dimension (W*H*D)  | 70*124*127mm  |
|                          | Packing  | 10pcs/CTN, 13Kgs/CTN, 0.04cbm   |
| NOTE                     | Cooling method   | Cooling by free air convection  |
|                          | <p>1. All parameters NOT specially mentioned are measured at rated input, rated load and 25°C of ambient temperature.<br/>                 2. Measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 uF &amp; 10uF parallel capacitor.<br/>                 3. The SPS is considered a component which will be installed into final equipment. We cannot guarantee that the final equipment will meet EMC directives, Final product manufactures must be re-confirm that their product meets EMC directives</p> |   |

**Mechanical Specification**

Unit: mm

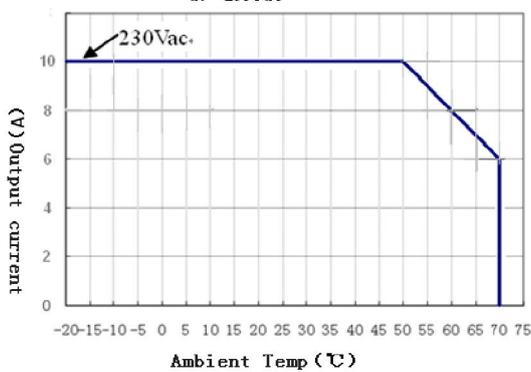


**Block Diagram**



**Derating Curve**

Output current VS Ambient Temp at 230Vac



**Output derating VS input voltage**

