

SWITCHING POWER SUPPLY

TYPE PS5R-VG24

└─ Output Voltage

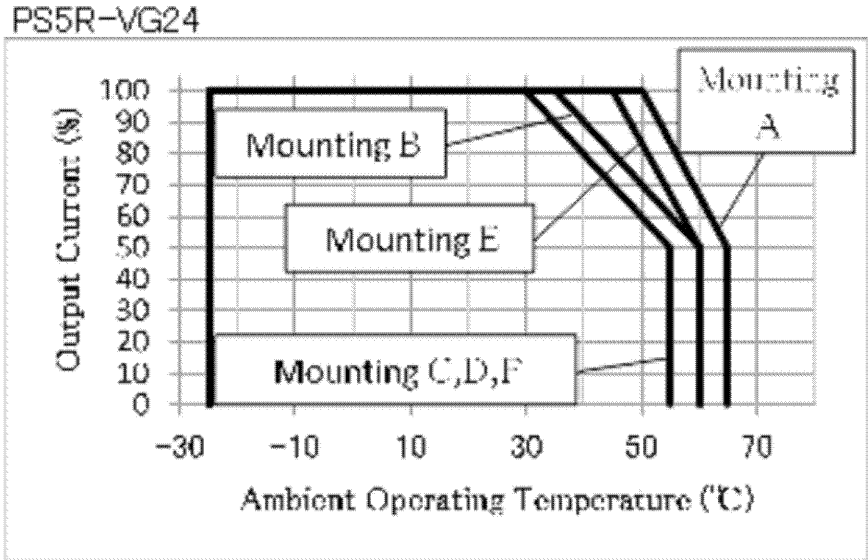
1. Applicable standard
 - UL508(UL Listing)
 - CSA C22.2 No 107.1,
 - EN50178,IEC/EN60950-1,EN62477-1,IEC/EN62368-1 (TUV Approved)
 - ANSI/ISA 12.12.01
 - SELV(EN60950-1,EN62368-1)
2. EMC applicable
 - (1) EMI EN 61204-3 (Class B)
 - (2) EMS EN61204-3 (industrial)
3. Operating conditions
 - (1) Operating temperature -25 to +65°C (See derating characteristics, No freezing)
 - (2) Storage temperature -25 to +75°C (No freezing)
 - (3) Operating humidity 20 to 90%RH (No condensation)
 - (4) Altitude Operation:2000m maximum, Transport:3000m maximum
 - (5) Pollution degree 2
4. Constructions
 - (1) Outside view See attached sheet.
 - (2) Degree of protection IP20
 - (3) Over current protection 105% minimum (auto reset)
 - (4) Operation indicator LED (Green)
 - (5) Body case color Dark gray
 - (6) Body terminal style M3.5
 - (7) Weight Approx. 960g
5. Characteristics
 5. 1 Input
 - (1) Input voltage(1-phase,2-wire) 100 to 240V AC(Voltage range: 85 to 264V AC/100 to 370V DC)
(At less than 100V AC,the derating is 1.3%/V
At less than 140V DC,the derating is 0.5%/V)
*DC input voltage is not subject to safety standards.
 - (2) Frequency 50/60Hz
 - (3) Input current 100V AC: 2.7A typ.(At rated output)
230V AC: 1.2A typ. (At rated output)
 - (4) Inrush current 14A typ. (Ta=25°C at cold start,100V AC)
30A typ. (Ta=25°C at cold start,230V AC)
 - (5) Leakage current 120V AC: 0.5mA maximum, 230V AC: 1.0mA maximum
 - (6) Efficiency (Typ.) 100V AC :89%(at rated output)
230V AC :90%(at rated output)
 5. 2 Output
 - (1) Output voltage- 24V DC
 - (2) Output current 10.0A

- (3) Adjustable voltage range ±10%
- (4) Output holding time 100V AC 30ms typ. (at rated output)
230V AC 40ms typ. (at rated output)
- (5) Rise time 200ms maximum (at rated input and output)
- (6) Start-up time 100V AC: 800ms maximum (at rated output)
230V AC: 800ms maximum (at rated output)
- (7) Regulation
 - (a) Input fluctuation 0.4% maximum
 - (b) Load fluctuation 1.0% maximum
 - (c) Temperature change 0.05%/°C maximum (-25 to +50°C)
 - (d) Ripple voltage (including noise) 1.0%_{p-p} maximum (0 to +50°C),
1.5%_{p-p} maximum (-10 to 0°C)
4.0%_{p-p} maximum (-25 to -10°C)

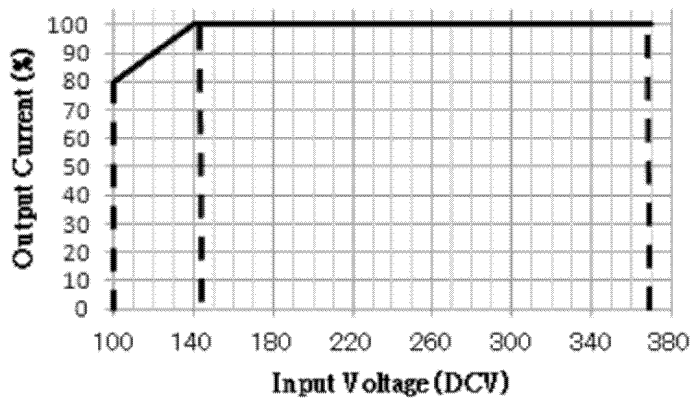
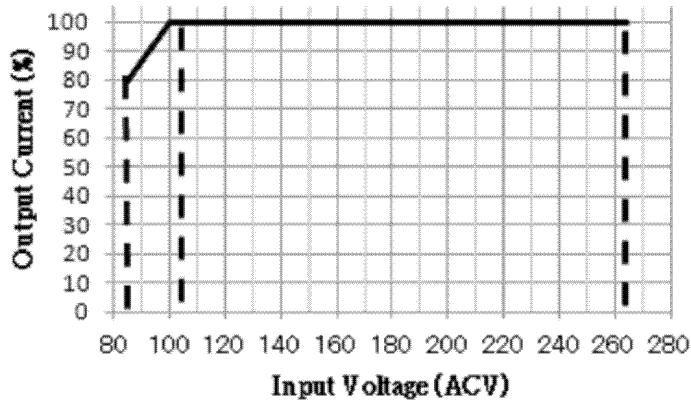
6. Characteristics

- (1) Dielectric strength
 - (a) Between input and output terminals 3000V AC,1 minute (detected current 25mA)
 - (b) Between input and ground terminals 2000V AC,1 minute (detected current 25mA)
 - (c) Between output and ground terminals 500V AC,1 minute (detected current 100mA)
- (2) Insulation resistance
 - (a) Between input and output terminals 100MΩ minimum (500V DC megger)
 - (b) Between input and ground terminals 100MΩ minimum (500V DC megger)
- (3) Vibration resistance 10 to 55Hz, Amplitude 0.375mm 2 hours each in 3 axes(with BNL6)
- (4) Shock resistance 300 m/s², 3 shocks each in 6 axes
- (5) Overvoltage Category II

□ Output current vs. Operating temperature characteristics



□ Output current vs. Input Voltage characteristics



Mounting Style

