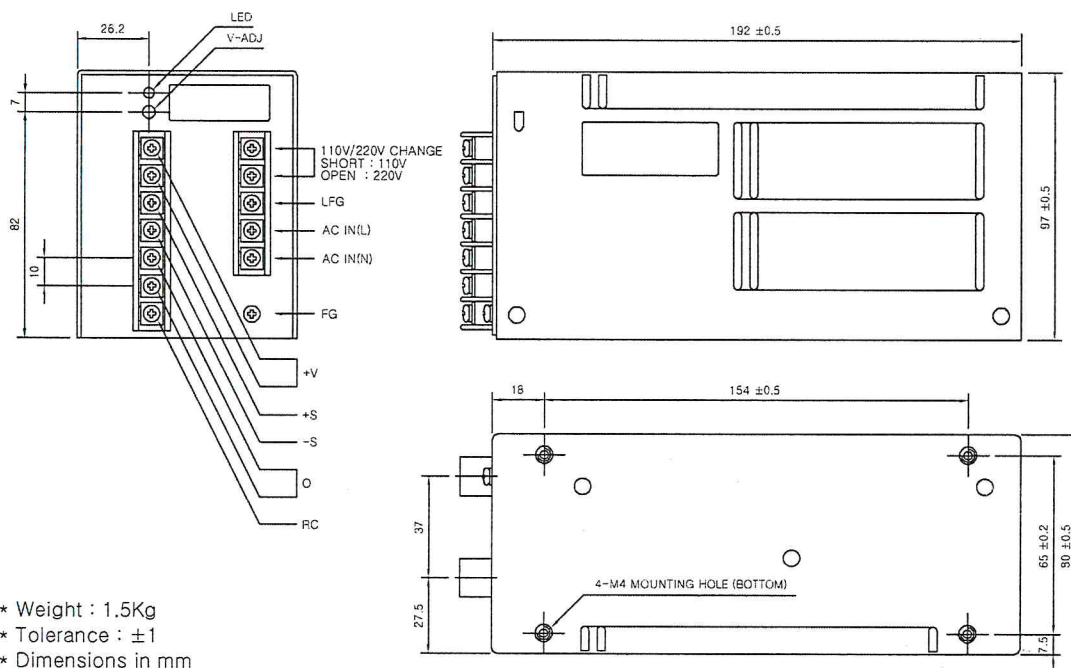




## VSF200, 220-S SPECIFICATIONS

|                       | MODEL                          | VSF200-05                                                                                                    | VSF220-12                  | VSF220-13.8 | VSF220-15 | VSF220-24  | VSF220-48  |
|-----------------------|--------------------------------|--------------------------------------------------------------------------------------------------------------|----------------------------|-------------|-----------|------------|------------|
| INPUT                 | VOLTAGE, FREQUENCY             | AC100-120V / 200-240V (AC90 ~ 132V / 180 ~ 264V or DC255 ~ 370V), 50/60Hz (47 ~ 440Hz or DC) User Selectable |                            |             |           |            |            |
|                       | CURRENT [A]                    | 110V                                                                                                         | 4.4 (I <sub>b</sub> =100%) |             |           |            |            |
|                       |                                | 220V                                                                                                         | 2.2 (I <sub>b</sub> =100%) |             |           |            |            |
|                       | EFFICIENCY [%]                 | 110V                                                                                                         | 75 typ                     | 75 typ      | 75 typ    | 75 typ     | 77 typ     |
|                       |                                | 220V                                                                                                         |                            |             |           |            | 80 typ     |
|                       | INRUSH CURRENT                 | 20A typ(AC IN 110V, I <sub>b</sub> =100%), 40A typ(AC IN 220V, I <sub>b</sub> =100%) at cold start.          |                            |             |           |            |            |
| OUTPUT                | VOLTAGE [V]                    | 5                                                                                                            | 12                         | 13.8        | 15        | 24         | 48         |
|                       | CURRENT [A]                    | 40                                                                                                           | 18.5                       | 16          | 15        | 9.5        | 4.5        |
|                       | REGULATION, LINE [mV]          | 50 Max                                                                                                       | 60 Max                     | 70 Max      | 75 Max    | 120 Max    | 240 Max    |
|                       | REGULATION, LOAD [mV]          | 100 Max                                                                                                      | 120 Max                    | 140 Max     | 150 Max   | 240 Max    | 480 Max    |
|                       | RIPPLE [mVp-p]                 | 100 Max                                                                                                      | 120 Max                    | 140 Max     | 150 Max   | 240 Max    | 480 Max    |
|                       | RIPPLE, NOISE [mVp-p]          | 150 Max                                                                                                      | 170 Max                    | 190 Max     | 200 Max   | 290 Max    | 530 Max    |
|                       | TEMPERATURE DRIFT 0~+50°C [mV] | 150 Max                                                                                                      | 170 Max                    | 190 Max     | 200 Max   | 360 Max    | 720 Max    |
|                       | RISE TIME [ms]                 | 600 Max (AC IN 110V/220V I <sub>b</sub> =100%)                                                               |                            |             |           |            |            |
|                       | HOLDING TIME [ms]              | 15 typ (AC IN 110V/220V I <sub>b</sub> =100%)                                                                |                            |             |           |            |            |
| PROTECTION CIRCUIT    | OVER CURRENT PROTECTION        | Works at over 110% of rating and recovers automatically                                                      |                            |             |           |            |            |
|                       | OVER VOLTAGE PROTECTION        | Works at 110 ~ 150% of rating                                                                                |                            |             |           |            |            |
| ELECTRICALLY ISOLATED | INPUT-OUTPUT                   | AC 3,000V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)                              |                            |             |           |            |            |
|                       | INPUT-CASE, FG                 | AC 2,000V 1 minute current 20mA, DC 500V 100MΩ (At room temperature & Humidity)                              |                            |             |           |            |            |
|                       | OUTPUT-CASE, FG                | AC 500V 1 minute current 100mA, DC 500V 100MΩ (At room temperature & Humidity)                               |                            |             |           |            |            |
| ENVIRONMENT           | OPERATING TEMP AND HUMID       | -10 ~ +50°C, 20 ~ 90% RH(Non condensing)                                                                     |                            |             |           |            |            |
|                       | STORAGE TEMP AND HUMID         | -20 ~ +75°C, 20 ~ 90% RH(Non condensing)                                                                     |                            |             |           |            |            |
|                       | VIBRATION                      | 10~55Hz at 1G, 3 minutes period, 30 minutes along X, Y and Z axis                                            |                            |             |           |            |            |
|                       | IMPACT                         | 10G for 20ms once on each X, Y and Z axis                                                                    |                            |             |           |            |            |
| SAFETY                | SAFETY REGULATION              | UL,C-UL,CE                                                                                                   | UL,C-UL,CE                 | -           | -         | UL,C-UL,CE | UL,C-UL,CE |
|                       | LINE CONDUCTED RF VOLTAGE      | Complied with FCC Part 15, VCCI-A, CISPR22-A, EN55022 - A                                                    |                            |             |           |            |            |

## VSF200, 220-S EXTERNAL VIEW



- \* Weight : 1.5Kg
- \* Tolerance : ±1
- \* Dimensions in mm