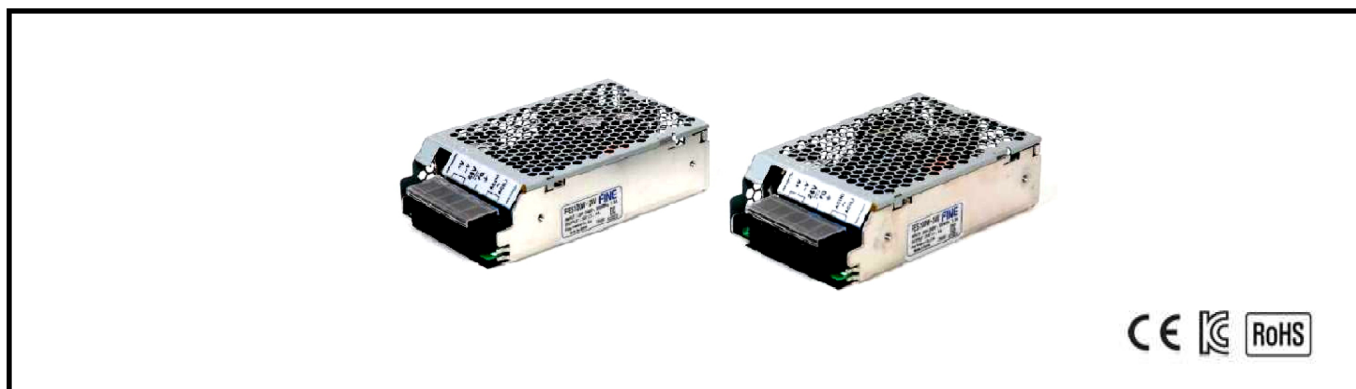
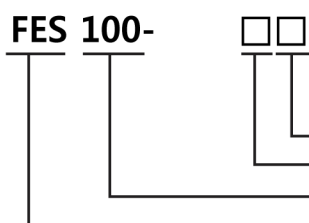


# FES100-05,12,15,24,48

SINGLE OUTPUT



## ORDERING INFORMATION



Optional : Terminal type(A)  
Output voltage combination  
Total output wattage  
Series name

- Resonant Converter
- Cooling by Free Air Convection
- Input Voltage Range (AC IN 187V ~ 264V)
- Built-in Inrush Current
- Protections: Short circuit/Overload  
Over voltage/Over temperature
- Complies with FCC-A
- 100% Full load Burn-in test
- 2 Years Warranty

✕ Terminal type (Non) : Standard terminal  
( A ) : Angle terminal

## SPECIFICATIONS

|                                 | MODEL                                     | FES 100W-05V   | FES 100W-12V | FES 100W-15V | FES 100W-24V | FES 100W-48V |
|---------------------------------|---|--|--------------|--------------|--------------|--------------|
| INPUT                           | VOLTAGE,FREQUENCY                         | AC 187~264V, 47~63Hz   |              |              |              |              |
|                                 | CURRENT (A) 220V                          | 1.1  | 1.1          | 1.1          | 1.0          | 1.0          |
|                                 | EFFICIENCY (%) 220V                       | 84   | 86           | 86           | 90           | 90           |
|                                 | INRUSH CURRENT (A)                        | 40A typ(AC IN 220V, I <sub>o</sub> =100%) at cold start.           |              |              |              |              |
|                                 | LEAKAGE CURRENT (mA)<br>(at 220VAC, 60Hz) | 0.5<   |              |              |              |              |
| OUTPUT                          | VOLTAGE (V)                               | 5  | 12           | 15           | 24           | 48           |
|                                 | CURRENT (A)                               | 20   | 8            | 6            | 4            | 2            |
|                                 | LINE REGULATION (mV)                      | 20   | 47           | 58           | 94           | 195          |
|                                 | LOAD REGULATION (mV)                      | 43   | 97           | 115          | 195          | 375          |
|                                 | RIPPLE, NOISE (mVp-p)                     | 120  | 150          | 150          | 200          | 250          |
|                                 | OUTPUT VOLTAGE<br>ADJ. RANGE (V)          | 4~6  | 9.6~14.4     | 12~18        | 19.2~28.8    | 38.4~52.8    |
|                                 | O.V.P (V)                                 | 6.25~7.25  | 15~17.4      | 18.8~21.8    | 30~34        | 55~63        |
|                                 | START-UP TIME (ms)                        | 100 Max (AC IN 187V I <sub>o</sub> =100%)                          |              |              |              |              |
| HOLD-UP TIME (ms)               | 10 typ (AC IN 187V I <sub>o</sub> =100%)  |  |              |              |              |              |
| PROTECTION<br>CIRCUIT           | OVER CURRENT<br>PROTECTION                | Works at over 110% of rating and recovers automatically            |              |              |              |              |
|                                 | OVER VOLTAGE<br>PROTECTION                | Works at 115 ~ 140% of rating                                      |              |              |              |              |
| ISOLATION                       | INPUT-OUTPUT                              | AC 3,000V 1 minute, DC 500V 100MΩ (At Room Temperature & Humidity) |              |              |              |              |
|                                 | INPUT-CASE · FG                           | AC 2,000V 1 minute, DC 500V 100MΩ (At Room Temperature & Humidity) |              |              |              |              |
|                                 | OUTPUT-CASE                               | AC 500V 1 minute, DC 500V 100MΩ (At Room Temperature & Humidity)   |              |              |              |              |
| ENVIRONMENT                     | OPERATING TEMP.<br>AND HUMID.             | -10~+50°C , 20~90% RH(Non Condensing)                              |              |              |              |              |
|                                 | VIBRATION                                 | 10~55Hz at 1G 3 minutes periods, 30 minutes along X,Y and Z axis   |              |              |              |              |
|                                 | IMPACT                                    | 10G for 20ms, Once on each X, Y and Z axis                         |              |              |              |              |
| SAFETY AND<br>NOISE REGULATIONS | SAFETY<br>REGULATION                      | Meets UL 1950, CSA-22.2 , EN60950                                  |              |              |              |              |
|                                 | LINE CONDUCTED<br>RF VOLTAGE              | Conducted EMI Meets FCC Class A                                    |              |              |              |              |
| OTHERS                          | DIMENSION                                 | 82.0×133.5×38.0(L×W×H)   |              |              |              |              |
|                                 | QUALITY ASSURANCE                         | 2 Year Warranty  |              |              |              |              |