



# Single-Phase 400VAC Input AC-DC Power Supply



FDA50F

FDA75F

FDA150F

FDA200F

**50/75/150/200W**

**NEW**

# FDA

series

# FDA series

## Single-phase 200 - 480VAC Wide Input Range Power Supply

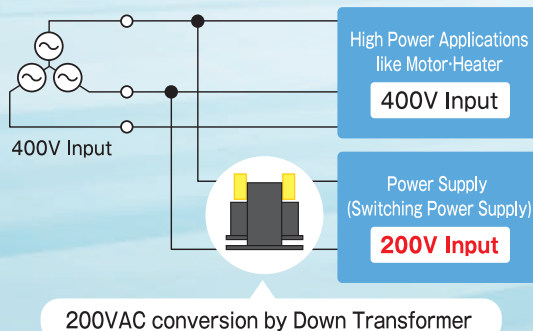
The FDA series can be used anywhere around the world  
due to its wide input voltage range.



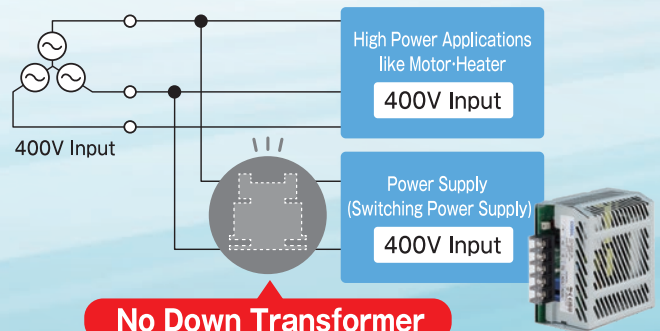
**400VAC input is available.**

Can decrease its material cost by no Down Transformer.

### [200VAC Input AC-DC Power Supply]



### [400VAC Input AC-DC Power Supply]



Safety Standard Approvals

**200 - 480VAC Input**  
AV & ICT Solutions  
**UL / EN 62368-1 Approved.**

No Down Transformer Solutions

- Can reduce application weight
- Can reduce wiring handling resource

Available with  
**reducing  
total cost**

## Compact Case Size compared to the existing COSEL models

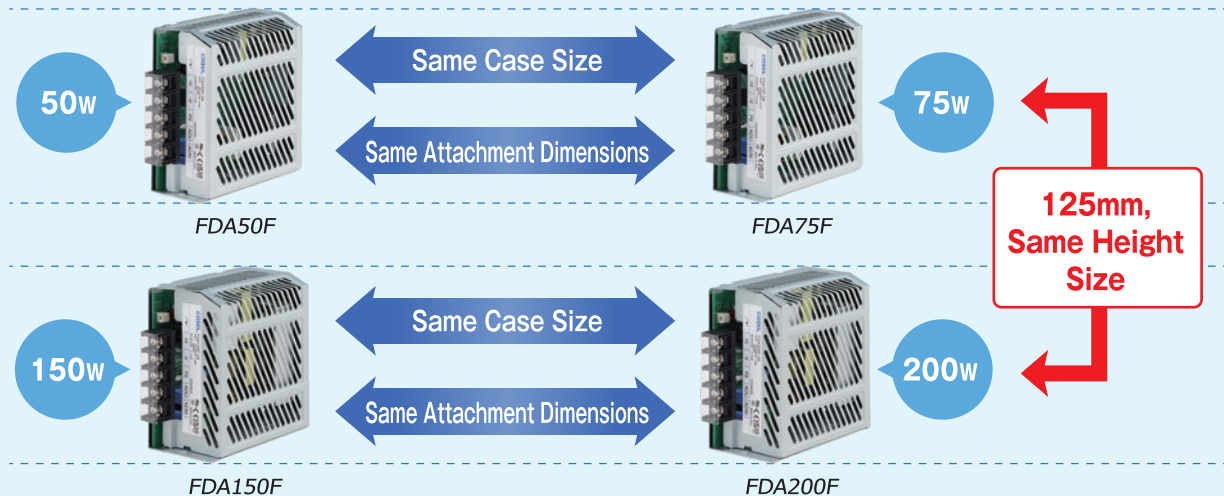
Case size smaller but the same output power as the existing models. Mechanical design flexibility of application is improved due to the compact case size.



■ Peak current option is available (Option: H, Under development)

## Same Case Size Design between 50W and 75W, or 150W and 200W.

Available to reduce design reconsideration time when output power is required to change.



## Target Applications



- Control Device for factory automation
- Factory Equipment
- Motor Control Device



- Semi-conductor Manufacturing Equipment
- Industrial Robots
- Other General Industrial Equipment (400VAC Input)



## FDA series



| Model                                                                      |     | FDA50F                                                                                | FDA75F   | FDA150F                             | FDA200F  |
|----------------------------------------------------------------------------|-----|---------------------------------------------------------------------------------------|----------|-------------------------------------|----------|
| Input Voltage                                                              | AC  | 1 $\phi$ 180 - 528VAC                                                                 |          |                                     |          |
|                                                                            | DC  | 255 - 746VDC                                                                          |          | 255 - 530VDC                        |          |
| Output Voltage / Current                                                   | 24V | 2.1A                                                                                  | 3.2A     | 6.3A                                | 8.4A     |
| Efficiency (400VAC, I <sub>o</sub> =100%)                                  |     | 86% typ.                                                                              | 87% typ. | 87% typ.                            | 88% typ. |
| Leakage Current (480VAC, 60Hz, I <sub>o</sub> =100%)                       |     | 0.75mA max.                                                                           |          |                                     |          |
| Operating Ambient Temperature                                              |     | -20 to +70°C (Derating is required.)                                                  |          |                                     |          |
| Safety Standard Approvals                                                  |     | UL62368-1, C-UL (Equivalent to CAN/CSA-C22.2 No.62368-4), and EN62368-4               |          |                                     |          |
| Conducted Noise                                                            |     | Complied with CISPR11-A, CISPR32-A, EN55011-A, FCC Part-15A, FCC Part18-A, and VCCI-A |          |                                     |          |
| Harmonic Compliance                                                        |     | IEC61000-3-2 (Class A) Compliant (No-PFC)                                             |          | IEC61000-3-2 (Class A) Compliant    |          |
| Case Size (W x H x D) mm [Inches]<br>(Excluding terminal block and screws) |     | 50 x 125 x 124 [1.97 x 4.92 x 4.88]                                                   |          | 65 x 125 x 124 [2.56 x 4.92 x 4.88] |          |
| Weight                                                                     |     | 550g max.                                                                             |          | 800g max.                           |          |

## Option

N1 : With DIN Rail    H : Peak Current (Under development)    C : Conformal Coating    L : With LED

## High Voltage Input / Enclosed Type AC-DC Power Supply

48V / 65V  
Output Bus Bar



90V / 130V  
200V / 300V  
Terminal Block



### HFA series (Forced Air Cooling Type)

Universal Three-phase Input AC-DC Power Supply

### HCA series (Conduction Cooling Type)

Universal Three-phase Input AC-DC Power Supply

■ FDA series is available for an auxiliary output power supply of HFA / HCA series.

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