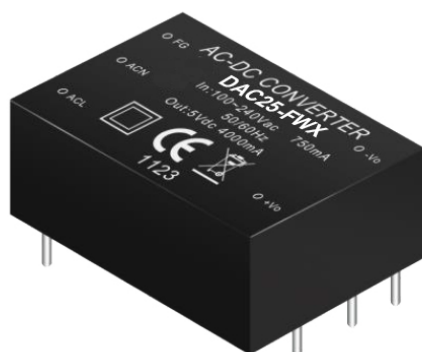


# DAC25-FWX Series 25 Watt AC/DC Power Supply



## Dual Output

Isolated output 3000VAC

Internal Input Filter

Up to 80% Efficiency

Encapsulated compact size 3" X2"

EN62368-1, CE recognized

ITE & AC Motor Applications

3 year Warranty

-DAC25-20: 5V, 5V - DAC25-21: 5V, 24V

-DAC25-22: 12V, 12V - DAC25-23: 15V, 15V

-DAC25-24: 5V, 12V - DAC25-25: 5V, 15V

- DAC25-26: 24V, 24V - DAC25-27: 3.3V, 5V



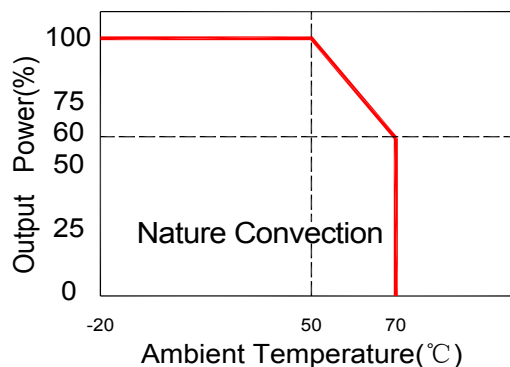
|       |                        | UNIT |                                                                                        |  |  |
|-------|------------------------|------|----------------------------------------------------------------------------------------|--|--|
| INPUT | Voltage/Freq           | V    | Universal Input voltage AC 90V ~ 264V 100~240 VAC 47 ~ 63Hz                            |  |  |
|       | Current Typ. 110V 220V | A    |                                                                                        |  |  |
|       | Min. Load              | -    | 20%                                                                                    |  |  |
|       | Inrush Current         | A    | 115V 12A (Ta=25°C, Io=100% at cold Start ); 230V 20A (Ta=25°C, Io=100% at cold Start ) |  |  |
|       | Line Frequency         | Hz   | 47 ~ 63 Typ. 50/60                                                                     |  |  |

|        |                                 | UNIT  | DAC25-20FWX                                                       | DAC25-21FWX | DAC25-22FWX | DAC25-23FWX |
|--------|---------------------------------|-------|-------------------------------------------------------------------|-------------|-------------|-------------|
| OUTPUT | Nominal Voltage                 | VDC   | +/- 5                                                             | +5 /+24     | +/- 12      | +/- 15      |
|        | Efficiency typ                  | %     | 75                                                                | 78          | 78          | 80          |
|        | Current                         | A     | +/- 2.5                                                           | +2.4/+ 0.5  | +/- 1.0     | +/- 0.8     |
|        | Transient Recovery time         | us    | Vi nom, Io nom = 0.5 Io nom Typ. 1000us                           |             |             |             |
|        | Line Regulation                 | %     | +/-1%                                                             | +/-1%       | +/-1%       | +/-1%       |
|        | Load Regulation                 | %     | +/-5%                                                             | +/-5%       | +/-5%       | +/-5%       |
|        | Ripple Noise 20MHz BW full load | mVp-p | 150                                                               | 100/150     | 150         | 150         |
|        | Voltage Accuracy                | %     | 5                                                                 | 5           | 5           | 5           |
|        | Over Load Protection            | -     | Auto Recovery                                                     |             |             |             |
|        | Short Circuit Protection        | -     | CONT. Auto Recovery                                               |             |             |             |
|        | Over Voltage Protection         | -     | 120%-150% rated output Voltage Protection type: Zener diode clamp |             |             |             |

|        | UNIT                            | DAC25-24FWX | DAC25-25 FWX                                                      | DAC25-26FWX | DAC25-27FWX |           |
|--------|---------------------------------|-------------|-------------------------------------------------------------------|-------------|-------------|-----------|
| OUTPUT | Nominal Voltage                 | VDC         | +5/+12                                                            | +5 /+15     | +/-24       | +3.3 / +5 |
|        | Efficiency typ                  | %           | 76                                                                | 76          | 80          | 76        |
|        | Current                         | A           | +2.4/+1.0                                                         | +2.4/+ 0.8  | +/- 0.5     | 2.5 / 1.0 |
|        | Transient Recovery time         | us          | Vi nom, Io nom = 0.5 Io nom Typ. 1000us                           |             |             |           |
|        | Line Regulation                 | %           | +/-1%                                                             | +/-1%       | +/-1%       | +/-1%     |
|        | Load Regulation                 | %           | +/-5%                                                             | +/-5%       | +/-5%       | +/-5%     |
|        | Ripple Noise 20MHz BW full load | mVp-p       | 150/240                                                           | 150/240     | 150         | 150/240   |
|        | Voltage Accuracy                | %           | 5                                                                 | 5           | 5           | 5         |
|        | Over Load Protection -          |             | Auto Recovery                                                     |             |             |           |
|        | Short Circuit Protection -      |             | CONT. Auto Recovery                                               |             |             |           |
|        | Over Voltage Protection         |             | 120%-150% rated output Voltage Protection type: Zener diode clamp |             |             |           |

|                    |                                       |                                                |
|--------------------|---------------------------------------|------------------------------------------------|
| <b>Isolation</b>   | <b>Isolation Voltage</b>              | Input / Output 3KVac/ 5mA/5Secs                |
|                    | <b>Isolation Capacitance</b>          |                                                |
|                    | <b>Isolation Resistance</b>           | Input / Output, @500 Vdc 100MΩ                 |
| <b>Environment</b> | <b>Operating Temp/Hum.</b>            | -20~ +75%                                      |
|                    | <b>Storage Temp/Hum.</b>              | -40 ~ +85% HUMIDITY 95% 5RH%                   |
|                    | <b>Derating</b>                       | Vi nom, Io nom+51 to 71°C 2 %/°C               |
| <b>Safety</b>      | <b>CE</b>                             | EN62368-1                                      |
|                    | <b>EMI Conduction &amp; Radiation</b> | Compliance to EN55032                          |
|                    | <b>EMS Immunity</b>                   | Compliance to EN55024                          |
| <b>Size</b>        | <b>MM</b>                             | 76.2 X 50.8 X 25.4 (mm) 3" X 2" X 1" 112 grams |

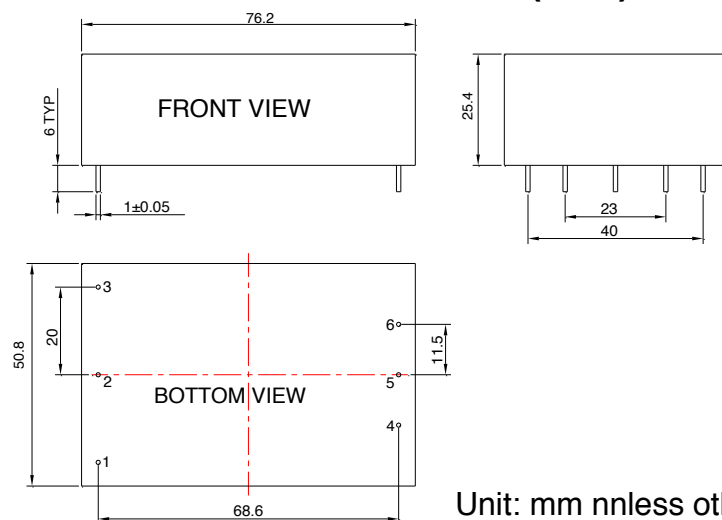
## OUTPUT DERATING CURVE AND RECCOMENDED MOUNTING DIAGRAM



## Terminal Output

| PIN | Model  |      |      |
|-----|--------|------|------|
|     | Single | Dual | Dual |
| 1   | FG     | FG   | FG   |
| 2   | ACN    | ACN  | ACN  |
| 3   | ACL    | ACL  | ACL  |
| 4   | -Vo    | -Vo  | +Vo2 |
| 5   | NO PIN | Com  | Com  |
| 6   | +Vo    | +Vo  | +Vo1 |

## DIMENSIONAL DRAWING (mm)

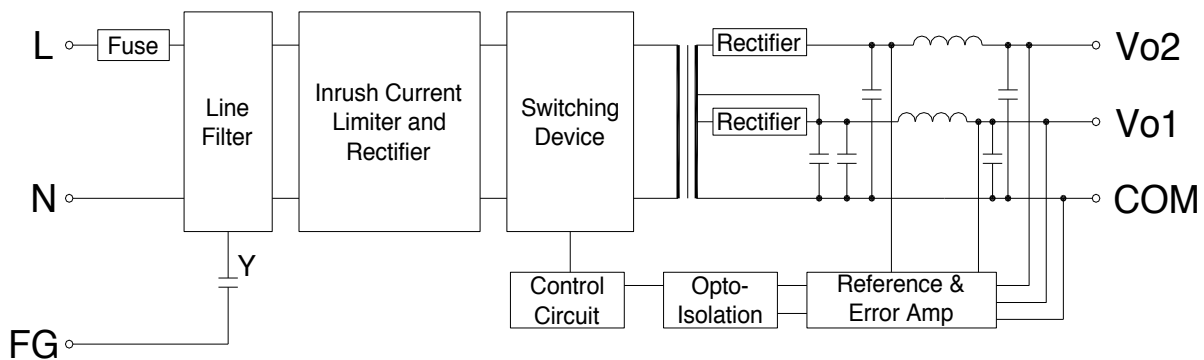
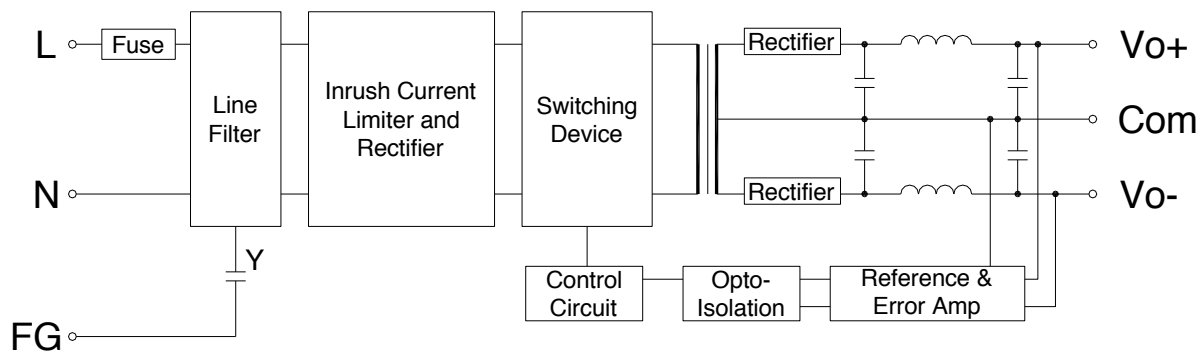


Unit: mm unless otherwise specified, all tolerances are ±0.50



## BLOCK DIAGRAM

### Dual Output



# Mouser Electronics

Authorized Distributor

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[DAC25-27FWX](#)