

## ODC75-\*\*SC \*\* Series

## 75Watt DC/DC Power Supply



### SINGLE OUTPUT

4:1 Wide input range VDC

Isolation 2250VDC

Efficiency up to 91%

Wide operating temperature from -40°C to +70°C

EMI class A without external circuit

No minimum load required- Soft Start

Meet EN50155

Available Inputs Voltage (nominal):

24VDC Nom (DC 9~36V) 48 VDC Nom (DC 18 ~ 75V)

110VDC Nom (DC40~160)

3 Year Warranty

**RoHS**

|        |                                                   | UNIT                     | ODC75-5SC24             | ODC75-125SC24                       | ODC75-15SC24                         | ODC75-24SC24            |
|--------|---------------------------------------------------|--------------------------|-------------------------|-------------------------------------|--------------------------------------|-------------------------|
| INPUT  | Nom Voltage (Range)                               | V                        | DC 24V (9~36)           | DC 48V (18~75)                      | DC 110V (40~160)                     |                         |
|        | Current Typ.                                      | mA                       | 95~3551                 | 60 - 1776                           | 15~1420                              |                         |
|        | Start up Voltage                                  |                          | 9Vdc                    | 18Vdc                               | 40Vdc                                |                         |
|        | Under Voltage shutdown                            | Vdc                      | 7.5 Vdc                 | 16 Vdc                              | 36Vdc                                |                         |
|        | Voltage Surge                                     | 24VDC<br>48VDC<br>110VDC |                         | Min. -0.7<br>Min. -0.7<br>Min. -0.7 | Max. 50VDC<br>Max. 100VD<br>Max. 170 |                         |
| OUTPUT | Nominal Voltage                                   | VDC                      | 5                       | 12                                  | 15                                   | 24                      |
|        | Capacitive Load max.                              | uF                       | 30,000                  | 5200                                | 3300                                 | 1300                    |
|        | Current                                           | A                        | 15                      | 6.25                                | 5                                    | 3.125                   |
|        | Total Pwr                                         | W                        | 75                      | 75                                  | 75                                   | 75                      |
|        | Efficiency                                        | %                        | 88                      | 90                                  | 90                                   | 90                      |
|        | Line Regulation                                   | %                        | +/-0.2%                 | +/-0.2%                             | +/-0.2%                              | +/-0.2%                 |
|        | Load Regulation                                   | %                        | +/-0.2%                 | +/-0.2%                             | +/-0.2%                              | +/-0.2%                 |
|        | Switching Frequency                               | KHZ                      | 250                     | 250                                 | 250                                  | 250                     |
|        | Ripple Noise                                      | mVp-p                    | 100                     | 125                                 | 125                                  | 250                     |
|        | OVER VOLTAGE PROTECTION                           | Vdc                      | 6.2                     | 15                                  | 18                                   | 30                      |
|        | Voltage adjustability                             | %                        | +/- 10%                 | +/- 10%                             | +/- 10%                              | +/- 10%                 |
|        | Transient res. recovery time 25% load step change | µs                       | 250                     | 250                                 | 250                                  | 250                     |
|        | SHORT CIRCUIT PROTECTION                          |                          | AUTO RECOVERY 120~170 % | AUTO RECOVERY 120~170 %             | AUTO RECOVERY 120~170 %              | AUTO RECOVERY 120~170 % |
|        | Cooling                                           |                          | Convection              |                                     |                                      |                         |



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The Power Professionals

|         |                              |       | ODC75-5SC48             | ODC75-125SC48           | ODC75-15SC48            | ODC75-24SC48            |  |
|---------|------------------------------|-------|-------------------------|-------------------------|-------------------------|-------------------------|--|
| OUTPUT  | Nominal Voltage              | VDC   | 5                       | 12                      | 15                      | 24                      |  |
|         | Capacitive Load max.         | uF    | 30,000                  | 5200                    | 3300                    | 1300                    |  |
|         | Current                      | A     | 15                      | 6.25                    | 5                       | 3.125                   |  |
|         | Total Pwr                    | W     | 75                      | 75                      | 75                      | 75                      |  |
|         | Efficiency                   | %     | 88                      | 90                      | 90                      | 90                      |  |
|         | Line Regulation              | %     | +/-0.2%                 | +/-0.2%                 | +/-0.2%                 | +/-0.2%                 |  |
|         | Load Regulation              | %     | +/-0.2%                 | +/-0.2%                 | +/-0.2%                 | +/-0.2%                 |  |
|         | Switching Frequency          | KHZ   | 250                     | 250                     | 250                     | 250                     |  |
|         | Ripple Noise                 | mVp-p | 100                     | 125                     | 125                     | 250                     |  |
|         | OVER VOLTAGE PROTECTION      | Vdc   | 6.2                     | 15                      | 18                      | 30                      |  |
|         | Voltage adjustability        | %     | +/- 10%                 | +/- 10%                 | +/- 10%                 | +/- 10%                 |  |
|         | Transient res. recovery time | μs    | 250                     | 250                     | 250                     | 250                     |  |
|         | 25% load step change         |       |                         |                         |                         |                         |  |
|         | SHORT CIRCUIT PROTECTION     |       | AUTO RECOVERY 120~170 % | AUTO RECOVERY 120~170 % | AUTO RECOVERY 120~170 % | AUTO RECOVERY 120~170 % |  |
| Cooling |                              |       | Convection              |                         |                         |                         |  |

|         |                              |       | ODC75-5SC110            | ODC75-125SC110          | ODC75-15SC110           | ODC75-24SC110           |  |
|---------|------------------------------|-------|-------------------------|-------------------------|-------------------------|-------------------------|--|
| OUTPUT  | Nominal Voltage              | VDC   | 5                       | 12                      | 15                      | 24                      |  |
|         | Capacitive Load max.         | uF    | 30,000                  | 5200                    | 3300                    | 1300                    |  |
|         | Current                      | A     | 15                      | 6.25                    | 5                       | 3.125                   |  |
|         | Total Pwr                    | W     | 75                      | 75                      | 75                      | 75                      |  |
|         | Efficiency                   | %     | 88                      | 91                      | 90                      | 90                      |  |
|         | Line Regulation              | %     | +/-0.2%                 | +/-0.2%                 | +/-0.2%                 | +/-0.2%                 |  |
|         | Load Regulation              | %     | +/-0.2%                 | +/-0.2%                 | +/-0.2%                 | +/-0.2%                 |  |
|         | Switching Frequency          | KHZ   | 250                     | 250                     | 250                     | 250                     |  |
|         | Ripple Noise                 | mVp-p | 100                     | 125                     | 125                     | 250                     |  |
|         | OVER VOLTAGE PROTECTION      | Vdc   | 6.2                     | 15                      | 18                      | 30                      |  |
|         | Voltage adjustability        | %     | +/- 10%                 | +/- 10%                 | +/- 10%                 | +/- 10%                 |  |
|         | Transient res. recovery time | μs    | 250                     | 250                     | 250                     | 250                     |  |
|         | 25% load step change         |       |                         |                         |                         |                         |  |
|         | SHORT CIRCUIT PROTECTION     |       | AUTO RECOVERY 120~170 % | AUTO RECOVERY 120~170 % | AUTO RECOVERY 120~170 % | AUTO RECOVERY 120~170 % |  |
| Cooling |                              |       | Convection              |                         |                         |                         |  |



# ETA-USA

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## PACKAGING (Parts packaged in tubes of 8)

## Pins



| Pin | Define | Diameter    |
|-----|--------|-------------|
| 1   | -Vin   | 1 mm[0.04"] |
| 2   | Case   | 1 mm[0.04"] |
| 3   | Ctrl   | 1 mm[0.04"] |
| 4   | +Vin   | 1 mm[0.04"] |
| 5   | -Vout  | 2 mm[0.08"] |
| 6   | -Sense | 1 mm[0.04"] |
| 7   | Trim   | 1 mm[0.04"] |
| 8   | +Sense | 1 mm[0.04"] |
| 9   | +Vout  | 2 mm[0.08"] |

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