



Наличие и актуальные цены на

**NSD15-12S3**

<https://www.mean-well.ru/store/NSD15-12S3/>



## 15W DC-DC Regulated Single Output

## NSD15-S series



### GTIN CODE

MW Search: <https://www.meanwell.com/serviceGTIN.aspx>

### Features :

- Wide 4:1 DC input range
- Protections: Short circuit / Overload / Over voltage
- 1500VDC I/O isolation
- Built-in EMI filter
- Cooling by free air convection
- Output voltage trimming function
- Built-in remote ON-OFF control
- 100% full load burn-in test
- Low cost
- High reliability
- 2 years warranty

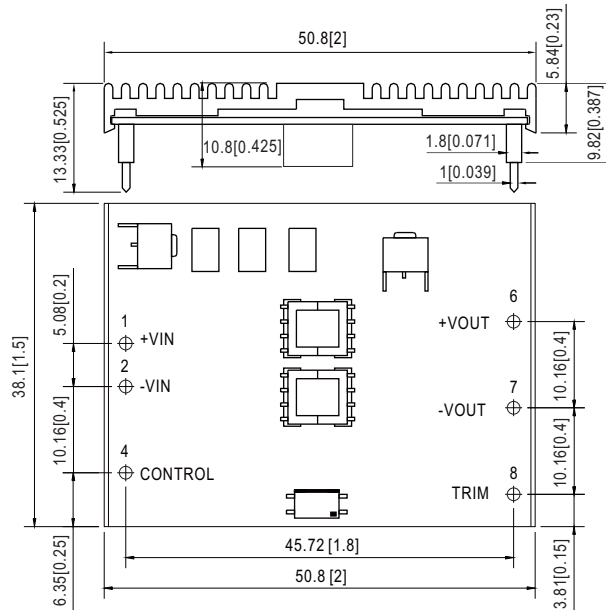


### SPECIFICATION

| MODEL                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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|                          | OVER VOLTAGE(CLAMP)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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|                          | SHORT CIRCUIT <small>Note.4</small>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| ENVIRONMENT              | WORKING TEMP.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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|                          | WORKING HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            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|                          | STORAGE TEMP., HUMIDITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| SAFETY & EMC<br>(Note 5) | SAFETY STANDARDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | UL62368-1, EAC TP TC 004 approved, Design refer to BS EN/EN62368-1                                                              |            |              |               |                          |            |              |               |
|                          | ISOLATION VOLTAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|                          | ISOLATION RESISTANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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|                          | EMC EMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Compliance to BS EN/EN55032 (CISPR32) Class B, EAC TP TC 020                                                                    |            |              |               |                          |            |              |               |
|                          | EMC IMMUNITY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Compliance to BS EN/EN61000-4-2,3,4,6,8; BS EN/EN55035, light industry level, EAC TP TC 020                                     |            |              |               |                          |            |              |               |
| OTHERS                   | MTBF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 12058.3K hrs min.    Telcordia SR-332 (Bellcore) ; 1734.0K hrs min.    MIL-HDBK-217F (25℃)                                      |            |              |               |                          |            |              |               |
|                          | DIMENSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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|                          | PACKING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 0.03Kg; 180pcs/6.4Kg/0.94CUFT                                                                                                   |            |              |               |                          |            |              |               |
| NOTE                     | <div>1. All parameters NOT specially mentioned are measured at 12, 48VDC input, rated load and 25℃ of ambient temperature.</div> <div>2. Ripple &amp; noise are measured at 20MHz of bandwidth by using a 12" twisted pair-wire terminated with a 0.1 μ F &amp; 47 μ F parallel capacitor.</div> <div>3. Tolerance : includes set up tolerance, line regulation and load regulation.</div> <div>4. Short circuit no more than 60 seconds.</div> <div>5. The power supply is considered a component which will be installed into a final equipment. All the EMC tests are been executed by mounting the unit on a 230mm*230mm metal plate with 1mm of thickness. The final equipment must be re-confirmed that it still meets EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies." (as available on <a href="https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf">https://www.meanwell.com/Upload/PDF/EMI_statement_en.pdf</a> )</div> <div>6. Derating to 80% load is needed for NSD15-48S series at 18Vdc input voltage. Full output wattage can be acquired when the input voltage is higher than 20Vdc.</div> <div>7. EMC filter suggestion:</div> <div><div><div><div><div><div></div><div>80uH</div></div><div><div></div><div>680uF</div></div></div><div><div></div><div>Vin</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><div><div></div><div>+</div></div><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|                                                                                                                                 |            |              |               |                          |            |              |               |

## Mechanical Specification

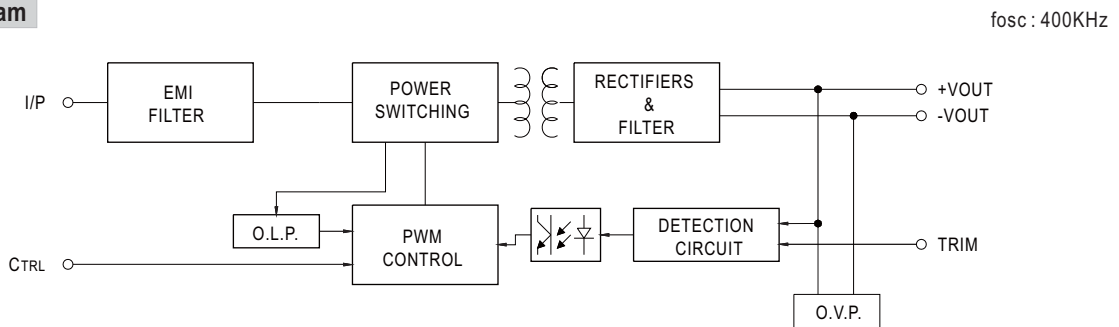
(Unit:mm[inch], Tolerance:±1[±0.04])



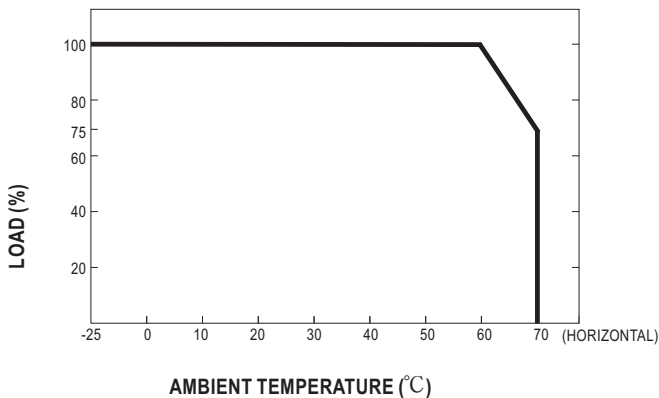
### Pin No. Assignment

| Pin No. | Assignment | Pin No. | Assignment |
|---------|------------|---------|------------|
| 1       | +VIN       | 6       | +VOUT      |
| 2       | -VIN       | 7       | -VOUT      |
| 3,5     | No Pin     | 8       | TRIM       |
| 4       | CONTROL    |         |            |

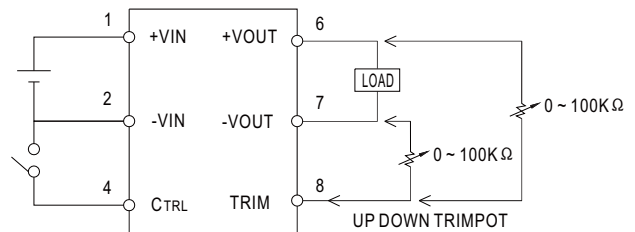
## Block Diagram



## Derating Curve



## ON/OFF Control & Output Trim



CONTROL INPUT.....PIN4  
 CONTROL COMMON.....PIN2  
 LOGIC COMPATIBILITY.....CMOS OR OPEN COLLECTOR TTL  
 CONTROL VOLTAGE  
 ON.....+5.5VDC min OR OPEN CIRCUIT  
 OFF.....+2.5VDC max. OR SHORT TO PIN2