Redundancy Modules
TSP-REM Series, 90–600 Watt

Features
◆ Module for true current sharing operation
◆ Alarm outputs, redundancy OK signal
◆ Hot swappable inputs
◆ Remote On/Off
◆ International safety approval package
◆ 3-year product warranty

With this module and two power supplies of the TSP series (of same type) a highly reliable, redundant power system can be configured without any additional components. This module enforces the equivalent sharing of the output current of the power supplies. In the event of a failed or disconnected power supply, the second unit will automatically supply the full current to the load. The redundancy of the system is monitored and, indicated by an alarm output. The inputs are hot swappable.

Models

<table>
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<tr>
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</thead>
<tbody>
<tr>
<td>TSP–REM360*</td>
<td>2 x 24 VDC</td>
<td>2 x 360 W</td>
<td>24 VDC</td>
<td>15.0 A</td>
<td>360 W</td>
</tr>
<tr>
<td>TSP–REM600*</td>
<td>2 x Control input</td>
<td>2 x 600 W</td>
<td>24 VDC (24–27 VDC)</td>
<td>25.0 A</td>
<td>600 W</td>
</tr>
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</table>

* For ATEX compliant model add appendix -EX to order code.
** Maximum current at nominal Vout

Redundancy Module Possible TSP input source

<table>
<thead>
<tr>
<th>Redundancy Module</th>
<th>Possible TSP input source</th>
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<tbody>
<tr>
<td>TSP–REM360</td>
<td>TSP 90-124, TSP 90-124N, TSP 180-124, TSP 360-124</td>
</tr>
<tr>
<td>TSP–REM600</td>
<td>TSP 600-124</td>
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</tbody>
</table>
All specifications valid at nominal input voltage, full load and +25°C after warm-up time unless otherwise stated.

**Output Specifications**

- **Output Voltage adjustable range with potentiometer**: 24 – 27 VDC
- **Ripple and noise [20 MHz bandwidth]**: 230 mVpp typ.
- **Capacitive load**: unlimited

**General Specifications**

- **Operating temperature**: -25°C to +70°C max.
  - derating above +40°C: 1.5 %/K
- **Storage temperature**: -25°C to +85°C max.
- **Temperature coefficient**: 0.02 %/K
- **Humidity [non condensing]**: 5 % to 90 % rel. H max.
- **Reliability, calculated MTBF at +25°C acc. to IEC 61709**
  - TSP-REM360: >2 Mio h
  - TSP-REM600: >1.9 Mio h
- **Remote On/Off by ext. contact**: contact open = On contact closed = Off
- **Redundancy relay contact**: 30 VDC / 1.0 A
- **Remote link cable (0.5 m)**: 2 cables included (order code TSP-JC)
- **Degree of protection**: IP 20 [IEC/EN 60529]
- **Isolation acc. to IEC/EN 60950-1, UL 60950-1, UL 508**
- **Altitude during operation**: tba.
- **Safety standard**: IEC/EN 60950-1, UL 60950-1, EN60079, UL508
  - IEC/EN 61010-1, IEC/EN 61010-2-201
- **Safety approvals**
  - UL 508
  - CSA
  - CB test certificate
  - IEC 60950-1 (SIQ for EN)
  - IEC/EN 61010-1, IEC/EN 61010-2-201
  - www.tracopower.com/overview/tsp
- **Electromagnetic compatibility**: in correspondence to connected units
  - (no internal switching device)
- **Environment**
  - Vibration acc. IEC 60068-2-6;
  - Shock acc. IEC 60068-2-27
  - 3 axis, sine sweep, 10 – 55 Hz, 1 g, 1 oct/min
  - 3 axis, 15 g half sine, 11 ms
- **Enclosure material**: aluminium [chassis] / stainless steel [cover]
- **Mounting**
  - DIN-rail mounting
  - Wall mounting [option]
  - for DIN-rails as per EN 50022-35x15/7.5
  - (snap-on with self-locking spring)
  - with wall mounting bracket - see page 4
- **Connection**: detachable screw terminals (plugs included)
  - 2 terminals per output
- **Installation instructions**
  - www.tracopower.com/overview/tsp
Redundancy Modules
TSP-REM Series 90–600 Watt

Function

Function Diagram:

Outline Dimensions

TSP-REM360

TSP-REM600

Max. terminal screw locked torque
Input/Output : 0.8 Nm
Remote/DC OK : 0.2 Nm

Max. terminal screw locked torque
Input/Output : 0.8 Nm
Remote/DC OK : 0.2 Nm
## TSP–WMK Wall Mounting Bracket

<table>
<thead>
<tr>
<th>Ordercode of Kit</th>
<th>For Models</th>
<th>Content of Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSP-WMK03</td>
<td>TSP-REM360, TSP-REM600</td>
<td>1 bracket</td>
</tr>
</tbody>
</table>

### TSP-WMK03

- **Material:** 2 mm Mild Steel
- **Tolerance:** ±0.1 mm (± 0.004)

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[Diagram of TSP-WMK03 Mounting Bracket]

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Specifications can be changed without notice! Make sure you are using the latest documentation, downloadable at www.tracopower.com