

INSTALLATION INSTRUCTIONS

TPC-REM Series Redundancy / Current Sharing Modules.

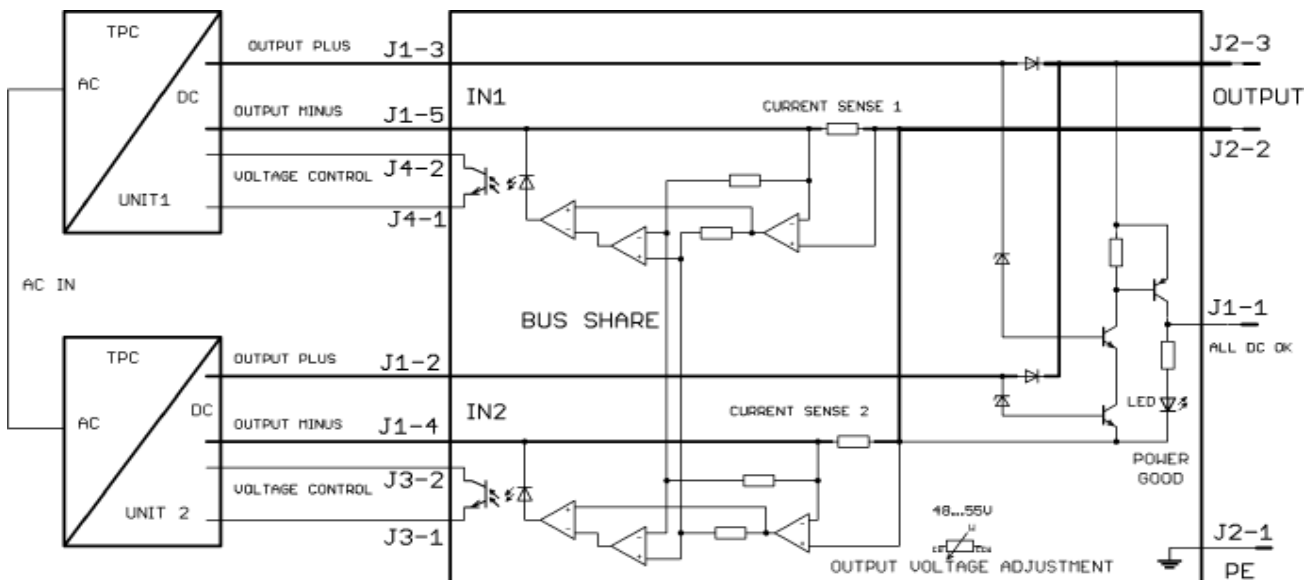
These modules allow a redundant and parallel operation of any two equal TPC power supplies. The modules achieve equal current sharing for both power supplies in normal operation. In case one power supply fails there are internal decoupling diodes to isolate it from the load in order to enable the remaining power supply providing its energy.

Order Code	Nominal Input Voltage *	Max. Input Current	Output Voltage Range adjustable	Max. Output Current
TPC-REM240-24	24 VDC	2 x 5 A	24-28 VDC	10 A
TPC-REM240-48	48 VDC	2 x 2.5 A	48-55 VDC	5 A

* Voltage drop over input lines should be below 0.5 VDC

Operating temperature range: Natural Air Convection Cooling	-25°C – +50°C max (measuring point: 3cm below the unit) -13°F – +122°F max
Storage temperature range:	-25°C – +85°C max -13°F – +185°F max
Parallel Operation:	2 power supplies of TPC Series. Not suitable with other power supplies
Reverse voltage max.	TPC-REM240-24: 35V, TPC-REM240-48: 63V
Electromagnetic compatibility:	In correspondence to connected units (no additional emission)
Connector 1 2x Input DC + DC-OK	5 screw terminals Similar to Phoenix MKDS 1,5/5-5,08 type
Connector 2 1x Output DC + PE*	3 screw terminals Similar to Phoenix MKDS 1,5/5-5,08 type
Wire size input / output	AWG 20-14/0.5-2.5mm ²
Signal connector / Wire size	2pin plug-in type, MOLEX KK-2 type, MOLEX 08-50-0032 AWG 30-22/0.05-0.3mm ²
Casing material	Plastic Makrolon 2405 (Beyer)
Chassis dimension	45mm x 90mm x 96.5mm [W x H x D]
IP Class	IP20
Protection class	Class 3 (PE connection not required for safety, internal Y-capacitor connection to +Vout for supplementary filtering purpose)
Mounting position	Vertical
Mounting	DIN-rail or wall mounting with adaptor (included)

Block diagram



Safety Instructions:

- Before installation read these instructions carefully and completely. This installation instruction cannot account for every possible condition of installation, operation or maintenance. Further information can be obtained from your local distributor's office or from the product datasheet, which can be downloaded, from the Internet at <http://www.tracopower.com/products/tpc.pdf>.
- The mains supply voltage connection, must be in accordance to IEC 62103, EN 50178 and IEC 60364, VDE 100.
- Before any installation, maintenance or modification work ensure that the main switch is switched off and prevented from being switched on again. Non-observance, touching of any live components or improper handling of TPC-REM240 can result in death, severe personal injury or substantial property damage. Proper and safe operation is dependent on proper storage, handling, installation and operation.
- Compliance with the relevant national regulations (in the USA, Europe and other countries) must be ensured. Before operation is started the following conditions must be ensured:
 - ❖ Connection to the TPC power supplies in compliance with national regulations (VDE0100 and EN50178).
 - ❖ By use of stranded wires, all strands must be fastened in the terminal blocks.
 - ❖ All input and output wires must be rated for the rated current and must be connected with the correct polarity.
 - ❖ Sufficient cooling must be ensured.
- **Never work on TPC-REM240 if power is supplied!** Risk of electric arcs and electrical shock, which can cause death, severe personal injury or substantial property damage.
- **Warning: Do not open the TPC-REM240 until at least 5 minutes after it has been disconnected from the power supplies on all poles.**
 - ❖ Only trained personnel may open the TPC-REM240.
 - ❖ Do not introduce any objects into the power supply.
 - ❖ Keep away from fire and water

Installation Instructions:

- This TPC-REM240 is designed for professional indoor systems. In operation the TPC-REM240 must not be accessible. It may be installed and put into service by qualified personnel only.
- The correct mounting position for optimal cooling performance must be observed. **Do not cover any ventilation holes.** Leave a free space of minimum 50mm (2in.) above and below the power supply. Observe power derating.
- **Recycling:** The unit contains elements that are suitable for recycling, and components that need special disposal. You are therefore requested to make sure that the power supply will be environment friendly recycled at the end of its service life.