

TECOMAT TC700 – Power Supply Modules

Type	PW-7901	PW-7902	PW-7903	PW-7904	PW-7906	PW-7907	PW-7908
Input voltage	24 V DC	24 V DC	230 V AC	230 V AC	24 V DC	230 V AC	115 V DC
UPS functionality	No	Yes	No	Yes	No	No	No
Output power	50 W	50 W	50 W	50 W	18 W	18 W	50 W

Basic features

- All TC700 modules including CPU, communication and I/O modules are supplied from the bus power line in the rack.
- All power supplies modules are designed to be fixed in the TC700 rack and to convert industrial standard 24 V DC or 230 V AC power line into the internal power line on the bus.
- They are switching power supplies with high efficiency, controlled by microprocessor. They are equipped with the load level indication.
- All power supplies meet requirements for safe voltage supply SELV (Safe Extra Low Voltage acc. IEC 364-3)
- Due to redundancy requirements or increasing the power, parallel arrangement of up to 5 power modules in one rack is allowed. In such case the compensation of output currents of each power module is performed.
- 2 types of power supply modules contain the circuits which perform the UPS (Uninterruptible Power Supply) functionality using only external standard lead 24 V DC maintenance free accumulator. It compensates a power line failure. The internal circuits enable the charging of accumulator during normal work. The continuous supply of the bus power during a main power line failure is ensured without any drop. The circuits protect the accumulators against deep discharge as well.

Connecting

- Power supply modules PW-7901÷7904 and PW-7908 can be placed in any slot in the rack. They occupy 2 slots.
- PW-7906 and PW-7907 are designed to supply small racks with 2 and 4 slots. In order to save those slots for I/O modules they are mounted on expansion connectors at the left side of the racks. They have also less power (18 W) comparing with the standard double slot power supplies (50 W)
- The input power line has to be connected to the front connector covered by door on the module.
- The accumulator has to be wired to other front connector under the same door.

Use

- Power supplies PW-79xx are designed for use only in TC700 to perform any requirements for reliable, uninterruptable supplying of distributed TC700 PLC.

Basic features	PW-7901	PW-7902	PW-7903	PW-7904	PW-7906	PW-7907	PW-7908
Input voltage/tolerance	24 V DC/ 19÷36 V DC	24 V DC/ 19÷36 V DC	230 V AC/ 180÷264 V AC	230 V AC/ 180÷264 V AC	24 V DC/ 19÷36 V DC	230 V AC/ 180÷264 V AC	115 V DC/ 95÷131 V DC
Frekvence vstupního napětí			48-63 Hz	48-63 Hz		48-63 Hz	
Max. continuous input current (A) or input power (VA)	4 A	4 A	72 VA	72 VA	2 A	43 VA	0.7 A
Input protection	fuse (T4A)	fuse (T4A)	fuse (T1A)	fuse (T1A)	fuse (T2A)	fuse (T1A)	fuse (T2A)
Output power	50 W	50 W	50 W	50 W	18 W	18 W	50 W
Efficiency	85%	85%	80%	80%	85%	85%	
Output Voltage	24.3 V ± 0.1 V DC	24.3 V ± 0.1 V DC	24.3 V ± 0.1 V DC	24.3 V ± 0.1 V DC	24.3 V ± 0.1 V DC	24.3 V ± 0.1 V DC	24.3 V ± 0.1 V DC
Output short protection	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic	Electronic
Galvanic isolation	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Max. period of power line drop out	50 ms	50 ms (when UPS off)	50 ms	50 ms (when UPS off)	10 ms	10 ms	50 ms
UPS functionality	No	Yes	No	Yes	No	No	No
External accumulator		24 V / 1.3 ÷ 12 Ah		24 V / 1.3 ÷ 12 Ah			
Electric insulation input/output	1500 V DC	1500 V DC	3750 V DC	3750 V DC	1500 V DC	3750 V DC	2500 V DC

Dimensions and Weight	PW-7901	PW-7902	PW-7903	PW-7904	PW-7906	PW-7907	PW-7908
Dimensions	137 × 60 × 198 mm	137 × 60 × 198 mm	137 × 60 × 198 mm	137 × 60 × 198 mm	90 × 27 × 192 mm	90 × 27 × 192 mm	137 × 60 × 198 mm
Weight	1 600 g	1 600 g	1 600 g	1 600 g	810 g	810 g	1 600 g

Order number

TXN 179 01	PW-7901 power supply 24 V AC / DC without UPS
TXN 179 02	PW-7902 power supply 24 V AC / DC with UPS
TXN 179 03	PW-7903 power supply 230 V AC, without UPS
TXN 179 04	PW-7904 power supply 230 V AC, with UPS
TXN 179 06	PW-7906 power supply 24 V DC, 18 W (only for RM-7941 since 2007, RM-7944 and RM-7946)
TXN 179 07	PW-7907 power supply 230 V AC, 18 W (only for RM-7941 since 2007, RM-7944 and RM-7946)
TXN 179 08	PW-7908 power supply 115 V DC without UPS



PW-7901



PW-7902



PW-7903



PW-7904



PW-7906



PW-7907



PW-7908