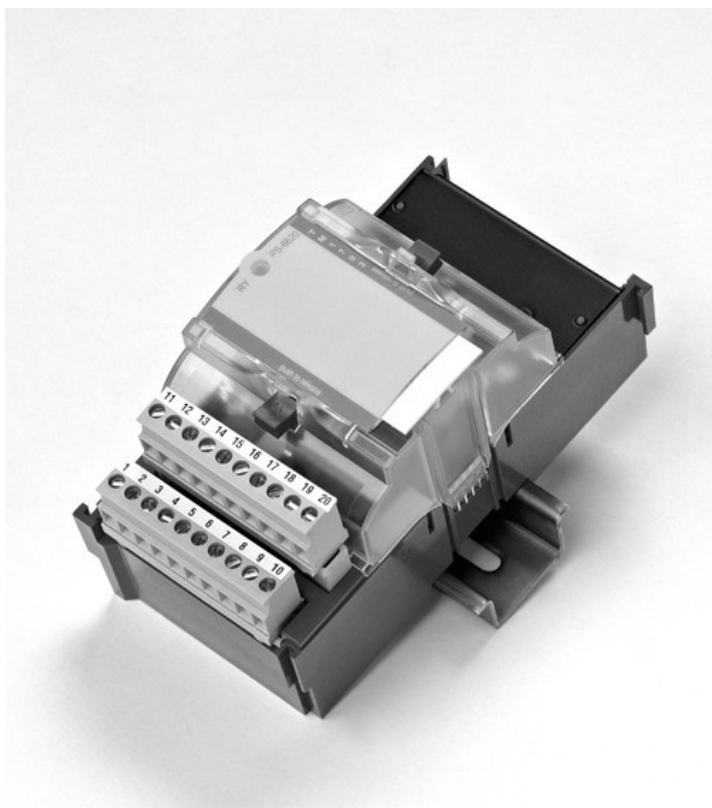


# SIEMENS

## SICAM 1703

### PS-662x

Power Supply Modules 24 - 60 V DC



Power supply module for TM 1703 ACP, TM 1703 mic and the bus interface modules CM-0821 and CM-0822

- Input voltage 24 .. 60 VDC
- System voltage output U1 5.1 VDC, max. 8 W
- System voltage output U2 switchable
  - 5.2 VDC, max. 2.5 W or
  - 10 VDC, max. 2.5 W
- Integrated voltage distribution
- Removable screw terminals
- Function indication via LED

## Application

The PS-6620 power supply module is being used in TM 1703 ACP and TM 1703 mic.

In **TM 1703 ACP** it supplies power to

- 1 peripheral control module
  - PE-6400
  - PE-6401
  - PE-6402
- and the installed I/O modules.

In **TM 1703 mic** it supplies power to

- 1 master control module
  - CP-6020, or
  - CP-6040,
- and the installed I/O modules.
- CP-6020 is able to supply power to an external modem using the DTR interface circuit of the serial interface (refer to "Technical Specifications")

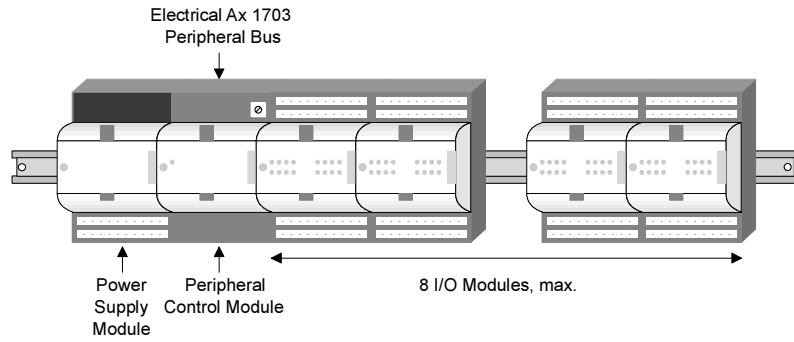
The PS-6621 power supply module is being used for supplying the CM-0821 and CM-0822 bus interface modules.

Further common features:

- Integrated voltage distribution

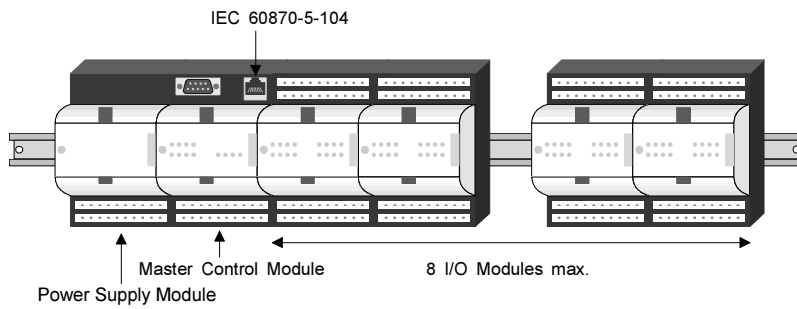
# Configuration

## TM 1703 ACP



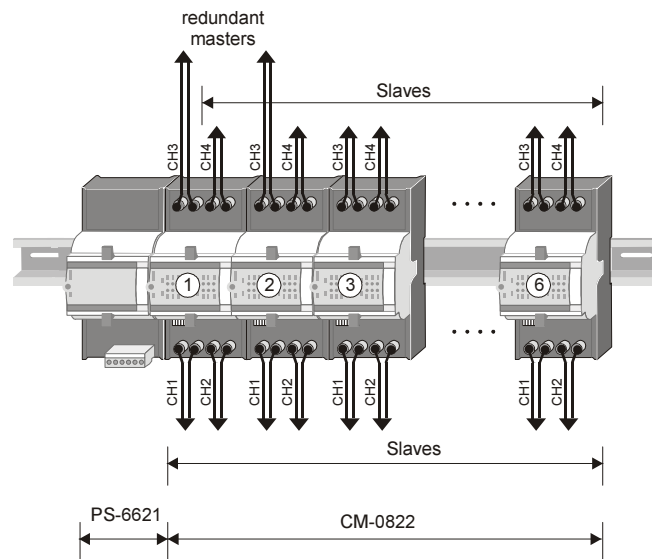
Single Power Supply (PS-6620)

## TM 1703 mic



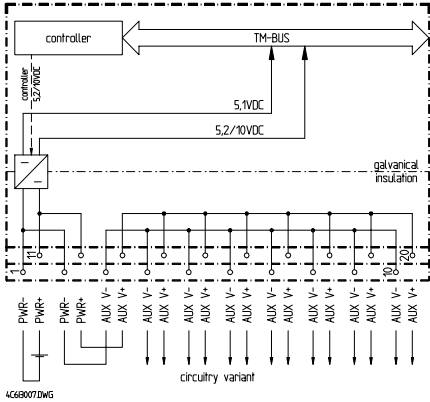
Single Power Supply (PS-6620)

## CM-0822

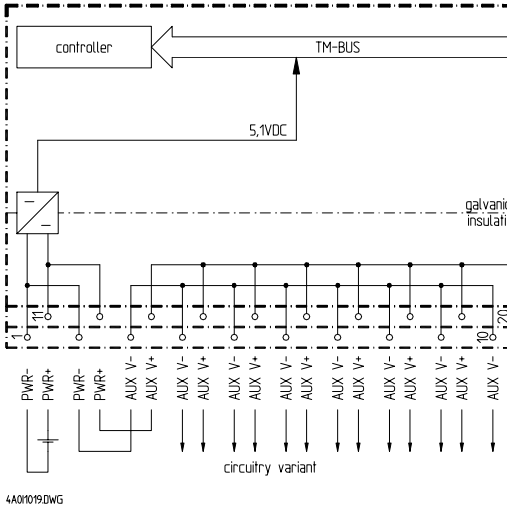


Single Power Supply (PS-6621)

# Block Diagram



PS-6620



PS-6621

## Technical Specification

Power Supply				
Operating voltage	18...78 VDC The voltage is supplied via terminals			
Output voltages	System voltage outputs			
for TM bus	<b>U1</b>	5.1 VDC ±1%	<b>TM 1703 ACP and TM 1703 mic</b>	
for external modem <sup>2)</sup>	<b>U2</b> switchable <sup>1)</sup>	5.2 VDC +2.9% 10 VDC ±5%	<b>TM 1703 mic (CP-6020/CPC60 only)</b>	
Output power	$P_{U1}$	$P_{U1,min}$	8.0 W - 1.25* $P_{U2,max}$	
		$P_{U1,max}$	8.0 W (at $P_{U2} = 0$ W)	
Output power	$P_{U2}$	$P_{U2,max}$	2.5 W	
Output total power		$P_{U1+U2,max}$	8.0 W	
		$P_{U1+U2,peak}$	9.0 W	
Efficiency		$\eta_{U1} = P_{U1}/P_{in}$	approx. 65%	
		$\eta_{U2} = P_{U2}/P_{in}$	approx. 60%	
Power consumption		$P_{in,max}$	12.3 W	
$P_{in} = P_{U1}/\eta_{U1} + P_{U2}/\eta_{U2}$		$P_{in,peak}$	13.8 W	
Bridgeable interruption of the operating voltage		<b>@24 VDC</b>	<b>@48 VDC</b>	<b>@60 VDC</b>
	8 W	3 ms	18.5 ms	30 ms
	5 W	4 ms	32 ms	49 ms
	2.5 W	8.5 ms	63 ms	190 ms
Reverse voltage protection	ja			
Overload protection	no <sup>3)</sup> (if required set external fuse)			
Short-circuit protection	no <sup>3)</sup> (if required set external fuse)			
Can be connected in parallel	no			

<sup>1)</sup> switching to the higher voltage is induced exclusively by CP-6020/CPC60 and depends on its parameter setting; without switching, only the lower voltage is available

<sup>2)</sup> via DTR circuit of the CP-6020 master control module's serial interface

<sup>3)</sup> Internal fuse is blown, change by authorized personnel only

Summary for TM 1703 ACP use			
Available power U1	$P_{U1,max}$	8.0 W	(U2 not used)

Summary for TM 1703 mic use			
Available power U1	$P_{U1,max}$	4.88 W	(U2 used for external modem, 2.5 W)
		6.75 W	(U2 used for external modem, 1 W)
		8.0 W	(U2 not used)
Available power U2	$P_{U2,max}$	2.5 W	

Mechanics	
Terminals	Removable screw terminals for direct conductor assembly, up to 2.5 mm <sup>2</sup> cross-section
Dimensions	131x63x73 mm (LxWxH, dimensions w/o DIN rail)
Weight	Approx. 245 g

## Literature

Folder TM 1703 mic	MC6-001-2
Folder TM 1703 ACP	MC6-003-2
System Datasheet TM 1703 ACP	MC6-007-1
Data Sheet CP-60xx/CPC60	MC6-021-1
Data Sheet CM-0821	MC0-031-1
Data Sheet CM-0822	MC0-033-1