

# SIEMENS

## SIMATIC

### S7-1500/ET 200MP Power supply module PS 60W 120/230V AC/DC (6ES7507-0RA00-0AB0)

Equipment Manual

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## Legal information

### Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

|  |
|--|
|  <b>DANGER</b>        |
| indicates that death or severe personal injury <b>will</b> result if proper precautions are not taken. |
|  <b>WARNING</b>       |
| indicates that death or severe personal injury <b>may</b> result if proper precautions are not taken.  |
|  <b>CAUTION</b>       |
| indicates that minor personal injury can result if proper precautions are not taken.                   |
| <b>NOTICE</b>  |
| indicates that property damage can result if proper precautions are not taken.                         |


If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

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|  |
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# Preface

## Preface

### Purpose of the documentation

This manual complements the system manuals:

- S7-1500 automation system  
(<http://support.automation.siemens.com/WW/view/en/59191792>)
- ET 200MP distributed I/O system  
(<http://support.automation.siemens.com/WW/view/en/59193214>)

Functions that generally concern the systems are described in these manuals.

The information provided in this manual and in the system/function manuals support you in commissioning the systems.

### Conventions

The term "CPU" is used in this manual both for the CPUs of the S7-1500 automation system and for interface modules of the ET 200MP distributed I/O system.

Also observe notes marked as follows:

---

#### Note

A note contains important information on the product described in the documentation, on the handling of the product, or on the section of the documentation to which particular attention should be paid.

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### Note on IT security

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You can register for a product-specific newsletter here.

For the safe operation of a plant/machine, however, it is also necessary to integrate the automation components into an overall IT security concept for the entire plant/machine, which corresponds to the state-of-the-art IT technology. You can find information on this on the Internet (<http://www.siemens.com/industrialsecurity>).

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# Documentation guide

## Introduction

The modular documentation of the S7-1500 and ET 200MP system families covers all aspects of your automation system.

The documentation consists of different modules that are divided into system manuals, function manuals and manuals.

The following table provides an overview of the documents that complement this manual. Information in the manual overrides specifications in the system manual.

## Overview of the documentation for the power supply module PS 60W 120/230VAC

The table below lists additional documentation for using the PS 60W 120/230VAC power supply module.

Table 1-1 Documentation for the power supply module PS 60W 120/230VAC

| Topic                                   | Documentation  | Most important contents   |
|---|--|---|
| System description                      | System manual<br>S7-1500 automation system<br><a href="http://support.automation.siemens.com/WW/view/en/59191792">http://support.automation.siemens.com/WW/view/en/59191792</a><br>System manual<br>ET 200MP distributed I/O system<br><a href="http://support.automation.siemens.com/WW/view/en/59193214">http://support.automation.siemens.com/WW/view/en/59193214</a> | <ul style="list-style-type: none"> <li>• Application planning</li> <li>• Installation</li> <li>• Wiring</li> <li>• Commissioning</li> <li>• Standards and approvals</li> <li>• Electromagnetic compatibility</li> <li>• Mechanical and climatic ambient conditions</li> </ul> |
| Designing interference-free controllers | Function manual<br>Designing interference-free controllers<br><a href="http://support.automation.siemens.com/WW/view/en/59193566">http://support.automation.siemens.com/WW/view/en/59193566</a>  | <ul style="list-style-type: none"> <li>• Basics</li> <li>• Electromagnetic compatibility</li> <li>• Lightning protection</li> </ul>   |
| System diagnostics                      | Function manual<br>System diagnostics<br><a href="http://support.automation.siemens.com/WW/view/en/59192926">http://support.automation.siemens.com/WW/view/en/59192926</a>   | <ul style="list-style-type: none"> <li>• Overview</li> <li>• Hardware/software diagnostics evaluation</li> </ul>  |

## SIMATIC manuals

All current manuals for SIMATIC products are available for download free of charge from the Internet (<http://www.siemens.com/automation/service&support>).

## Product overview

### 2.1 Properties

#### Order number

6ES7507-0RA00-0AB0

#### View of the module

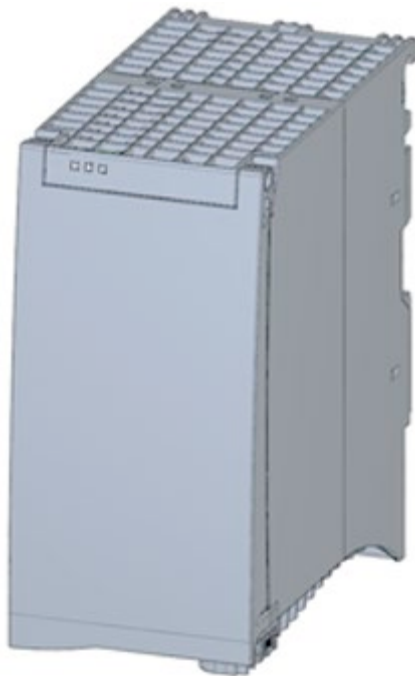


Figure 2-1 View of the PS 60W 120/230V AC/DC module

## 2.1 Properties

### Properties

The PS 60W 120/230V AC/DC power supply module supports the use of additional modules.

The power supply module has the following properties:

- Technical properties
  - Rated input voltages 120 V AC/DC and 230 V AC/DC
  - Output power 60 W
  - Power failure backup
  - Electrical isolation to the bus, safe electrical separation to EN 61131-2
- Supported functions
  - Firmware update
  - Identification data I&M0 to I&M4
  - Configuration in RUN
  - Diagnostic alarms
  - Diagnostic interrupts

### Accessories

The following components are supplied with the power supply module:

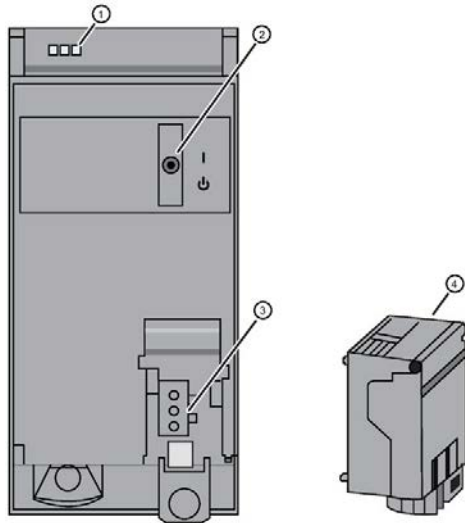
- Power connector
- U connector

These components are also available as spare parts.



## 2.2 Operating and display elements

The following figure shows the control and connection elements of the PS 60W 120/230 V UC behind the front panel as well as the power connector.



- ① LED displays indicating the current operating state and diagnostic status of the PS
- ② On/off switch
- ③ Power inlet for the power connector
- ④ Power connector; inserted in delivery state

Figure 2-2 View of the PS 60W 120/230V AC/DC (without front panel) and of the power connector

# Wiring

## 3.1 Connecting the supply voltage (PS 60W 230VAC)

This section contains information on connecting the power supply module to the mains voltage.

### Mains connection

 **WARNING**

**Installation instructions**

Risk of death or serious injury.

Observe the general installation instructions applicable in your country when wiring the power supply module.

Fuse the power cables according to their conductor cross-section.

The following applies to mains connection of the power supply module using the power connector:

- The power connector enables connection of the input voltage to the power supply module with touch protection.
- The power connector enables permanent wiring.
- The power connector features internal strain relief.
- The power connector ensures reverse polarity protection. A coding element assigns each power connector to a specific type of power supply module on delivery. A connector coded for 230 V AC does not fit in the connection to a 24 V DC power supply module.

 **DANGER**

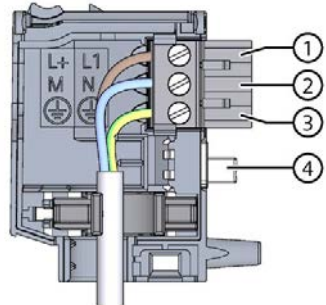
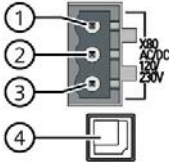
**Do not manipulate or omit the coding element**

Changes to the coding element can result in dangerous states in your plant and/or damage to the outputs of the I/O modules. In order to avoid damage, do not manipulate the coding. The coding element may not be omitted.

## Connection plug

The connection plug for the power supply is plugged in when the power supply module ships from the factory.

The following figure shows the assignment of the connection plug:

| Connector   | PS connection   | Name   |
|---|---|--|
|  |  | <ul style="list-style-type: none"> <li>① L</li> <li>② N</li> <li>③ Protective conductor</li> <li>④ Coding element</li> </ul> |

## Cables

You need flexible cables to wire power to the power supply module. The conductor cross-section must be 1.5 mm<sup>2</sup> (AWG: 16). You must fuse conductors with a cross-section of 1.5 mm<sup>2</sup> externally with a 16 A circuit breaker (B or C characteristic). The diameter of a 3 x 1.5 mm<sup>2</sup> sheathed cable can be no more than 8.5 mm. The ground conductor of flexible cables must be longer than the two other conductors. The fusing must meet the requirements of the corresponding control cabinet.

## Reference

You can find additional information about wiring the mains connector in the system manual S7-1500 automation system.

Siemens recommends the use of devices from the SITOP family of products for applications with load power supplies. Wiring information is available in the documentation for the load power supply.

# Parameters

## 4.1 Parameters

### Parameters of the PS 60W 120/230V AC/DC

Specify the module properties at the various parameters in the course of your STEP 7 parameterization. The following table lists the configurable parameters.

The parameters you define in the user program are transferred to the module by means of WRREC instruction (Configuration in RUN); see chapter Parameter data record (Page 22).

Table 4- 1 Configurable parameters and their defaults

| Parameters                    | Range of values | Defaults | Configuration in RUN |
|-------------------------------|-----------------|----------|----------------------|
| <b>Diagnostic/maintenance</b> |                 |          |                      |
| • Supply voltage missing      | Yes/No          | No       | Yes                  |
| • Switch position Off         | Yes/No          | No       | Yes                  |

---

#### Note

##### Diagnostic alarms without supply voltage

Regardless of whether the supply voltage is missing or the On/Off switch is set to "Off", the power supply module of the CPU or the IM is still capable of generating diagnostic alarms because it is provided sufficient power from the backplane bus. The entire diagnostic functionality is still available.

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# Interrupts, diagnostic alarms, error and status alarms

# 5

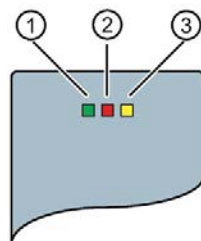
## 5.1 Status and error displays

### Introduction

Diagnostics by means of LEDs is a basic tool for troubleshooting. Usually, you can pinpoint the source of error more precisely by analyzing the module status information in STEP 7, or in the diagnostic buffer of the CPU. These locations contain the corresponding error information in plain text.

### LED displays

The following figure shows the LED displays (status and error displays) of the PS 60W 120/230V AC/DC.

















- ① RUN LED
- ② ERROR LED
- ③ MAINT LED

Figure 5-1 LED displays of the PS 60W 120/230V AC/DC

### Meaning of the LED displays

The following table explains the meaning of the status and error displays. You can find remedial measures for diagnostic alarms in chapter Diagnostic alarms (Page 15).

Table 5- 1 Status and error displays RUN/ERROR/MAINT

| LED   |   |   | Meaning   | Remedy   |
|---|---|---|---|--|
| RUN   | ERROR   | MAINT   |   |  |
| <br>Off        | <br>Off        | <br>Off        | OFF; PS returns no bus voltage <ul style="list-style-type: none"> <li>External error; diagnostics is disabled</li> <li>PS not powered in the system, no supply voltage at the PS and CPU/IM.</li> </ul> | Switch on power to the PS<br>Check the supply voltage<br>Switch on PS                                      |
| <br>On         | <br>On         | <br>On         | Startup; all LED displays are lit briefly after system startup, or during module restart after firmware update.   | -  |
| <br>Flashing   | Not relevant  | Not relevant  | Startup, PS returns bus voltage, PS waiting for parameterization  | -  |
| <br>Off        | <br>Flashing   | Not relevant  | Error, PS supplies no bus voltage <ul style="list-style-type: none"> <li>Supply voltage missing and diagnostics is enabled</li> <li>Internal error</li> </ul>   | Evaluate diagnostic alarms and take appropriate remedial measures; see chapter Diagnostic alarms (Page 15) |
| <br>Off       | Not relevant  | <br>On        | Maintenance request, PS returns no bus voltage <ul style="list-style-type: none"> <li>Switch is off; power is present and diagnostics is enabled</li> </ul>   | Switch on PS   |
| <br>Flashing | <br>Flashing | <br>Flashing | Malfunction<br>LEDs flash persistently  | Replace PS   |

## 5.2 Diagnostic alarms

### Diagnostic alarms

The following table shows the meaning of the diagnostic alarms and possible remedial measures for the respective cause.

One of the following "LED images" indicates directly on the PS that a diagnostic alarm was triggered.

- The red ERROR-LED is flashing.  
Indicates external or internal errors.
- The yellow MAINT-LED is lit.  
Maintenance; a maintenance request is active.
- All three LEDs are flashing permanently  
The PS is in "Defective" state.

In STEP 7, the diagnostic results are displayed in plain text by means of the online and diagnostic view. You can read the diagnostic data records by means of the "RDREC" instruction.

Table 5- 2 Diagnostic alarms, their meaning and remedies

| Diagnostic alarm                          | Error code |       | Meaning  | Reaction | Remedial measures   |
|---|------------|-------|--|----------|---|
|   | Dec.       | Hex.  |  |          |   |
| External error                            |            |       |  |          |   |
| Supply voltage missing                    | 266D       | 010AH | No supply voltage, or incorrect insertion of the power connector into the PS.                      | 1        | Check the supply voltage.   |
| Internal error                            |            |       |  |          |   |
| Overtemperature                           | 5D         | 0005H | Overtemperature on the printed circuit board.  | 3        | Check PS load. Isolate PS from mains. Wait one minute before you power on the PS again.   |
| Overvoltage backplane bus                 | 267D       | 010BH | High EMC interference or a defective PS, CPU or IM inserted.                                       | 3        | Eliminate electromagnetic interference. Check inserted modules and bus connectors. Isolate PS from mains. Wait one minute before you power on the PS again. |
| Low voltage/overload in the power segment | 281D       | 0119H | A voltage dip below the valid limit has been detected in the power segment to the right of the PS. | 2        | Check the modules in the affected segment; replace if necessary. Switch off the PS at the switch, then switch on again.                                     |
| Error in the power segment                | 282D       | 011AH | PS or module to the right of the PS is defective.  | 2        | Replace the defective module. Switch off the PS at the switch, then switch on again.  |
| Safety shutdown                           | 285D       | 011DH | Reliable operation of the module is no longer guaranteed.  | 3        | Check ambient conditions. Isolate PS from mains. Wait one minute before you power on the PS again.  |
| Maintenance                               |            |       |  |          |   |
| Switch turned off                         | 268D       | 010CH | The PS is switched off.  | 1        | Switch on PS.   |

5.2 Diagnostic alarms

| Diagnostic alarm | Error code |       | Meaning     | Reaction | Remedial measures |
|------------------|------------|-------|-------------|----------|-------------------|
|                  | Dec.       | Hex.  |             |          |                   |
| Malfunction      |            |       |             |          |                   |
| Module failure   | 256D       | 0100H | PS failure. | 3        | Replace PS.       |

**External errors, internal errors and malfunctions**

- External errors occur outside the PS. In the parameterization, specify whether or not an external error can trigger a diagnostic alarm. By default, external errors do not trigger diagnostic alarms.
- Internal errors occur inside the PS. If still possible, an internal error always triggers a diagnostic alarm.
- A malfunction is a static state; the PS must be sent in for repair. If still possible, a defect always triggers a diagnostic alarm.

**Explanation of the reactions**

1. No power at the power segment to the right of the PS. Alarm is only generated if the PS is still powered by the CPU or IM via the backplane bus.
2. The modules to the right of the PS are switched off.
3. The PS is switched off retentively. Alarm is only generated if the PS is still powered by the CPU or IM via the backplane bus. You cannot switch on the module unless you have eliminated the error and disconnected power to the PS for approximately one minute.



## 5.3 Interrupts

### What is a diagnostic interrupt?

You can determine reactions to internal or external errors in the user program, by programming a diagnostic interrupt which interrupts cyclic program execution on the CPU and triggers the diagnostic interrupt OB (OB82). The event which led to the interrupt is entered in the start information of the OB82.

### Trigger of a diagnostic interrupt

Events that can trigger a diagnostic alarm can also trigger a diagnostic interrupt:

- Supply voltage missing
- Overtemperature
- Overvoltage on the backplane bus
- Low voltage/overload in the power segment
- Error in the power segment
- Safety shutdown
- Switch position Off
- Malfunction

### Reactions to a diagnostic interrupt

You can find the CPU reaction to a diagnostic interrupt in the function manual System diagnostics (<http://support.automation.siemens.com/WW/view/en/59192926>).

Detailed information on the error event is available in the diagnostic interrupt OB by executing the "RALRM" instruction (read additional interrupt information) and in the STEP 7 Online Help.

## Technical specifications

### Technical specifications of the PS 60W 120/230V AC/DC

|  | 6ES7507-0RA00-0AB0    |
|--|-----------------------|
| Product type designation                                     | PS 60W 120/230V AC/DC |
| <b>General information</b>                                   |                       |
| Hardware version   | FS02                  |
| Firmware version   | V1.0.1                |
| <b>Engineering with</b>                                      |                       |
| STEP 7 TIA Portal can be configured/integrated as of version | V12 / V12             |
| STEP 7 can be configured/integrated as of version            | V5.5 SP3 or higher    |
| <b>FH technology</b>   |                       |
| <b>Redundancy</b>  |                       |
| Redundancy capability  | yes                   |
| • For increasing performance                                 | yes                   |
| <b>Power supply</b>  |                       |
| Rated value (DC)   | 120 V / 230 V         |
| Valid range low limit (DC)                                   | 88 V                  |
| Valid range high limit (DC)                                  | 300 V                 |
| Rated value (AC)   | 120 V / 230 V         |
| Valid range low limit (AC)                                   | 85 V                  |
| Valid range high limit (AC)                                  | 264 V                 |
| Short-circuit protection                                     | Yes                   |
| <b>Mains frequency</b>                                       |                       |
| Rated value 50 Hz  | yes                   |
| Lower limit of permissible frequency range                   | 47 Hz                 |
| Upper limit of permissible frequency range                   | 63 Hz                 |
| <b>Power failure backup</b>                                  |                       |
| Power failure backup time                                    | 20 ms                 |
| <b>Input current</b>   |                       |
| Rated value at 120 V DC                                      | 0.6 A                 |
| Rated value at 230 V DC                                      | 0.3 A                 |
| Rated value at 120 V AC                                      | 0.6 A                 |
| Rated value at 230 V AC                                      | 0.34 A                |
| <b>Output current</b>  |                       |
| Short-circuit protection                                     | yes                   |
| <b>Power</b>   |                       |
| Power feed to the backplane bus                              | 60 W                  |
| <b>Power loss</b>  |                       |
| Power loss at rated conditions                               | 12 W                  |

| <b>6ES7507-0RA00-0AB0</b>   |  |
|---|--|
| <b>Interrupts/diagnostics/status information</b>  |  |
| Status display  | yes  |
| <b>Electrical isolation</b>   |  |
| Primary/secondary   | Yes  |
| <b>Insulation</b>   |  |
| Insulation tested with  | 2500 V DC 2s (routine test)  |
| <b>EMC</b>  |  |
| <b>Immunity to surge voltages</b><br>on the supply lines in accordance with IEC 61000-4-5 | Yes; +/- 1 kV (according to IEC 61000-4-5; 1995; symm. surge), +/- 2 kV (according to IEC 61000-4-5; 1995; unsymm. surge), no external protective circuit required |
| <b>Degree of protection and protection class</b>  |  |
| Degree of protection according to EN 60529  | IP20   |
| Protection class  | 1; with ground conductor   |
| <b>Dimensions</b>   |  |
| Width   | 70 mm  |
| Height  | 147 mm   |
| Depth   | 129 mm   |
| <b>Weights</b>  |  |
| Weight, approx.   | 600 g  |

## Dimensional drawing

### A.1 Dimensional drawing

#### Dimensional drawing of the PS 60W 120/230V AC/DC

This appendix includes the dimensional drawing of the power supply module that is installed on a mounting rail with shielding bracket. Take the dimensions into account for installation in cabinets, control rooms, etc.

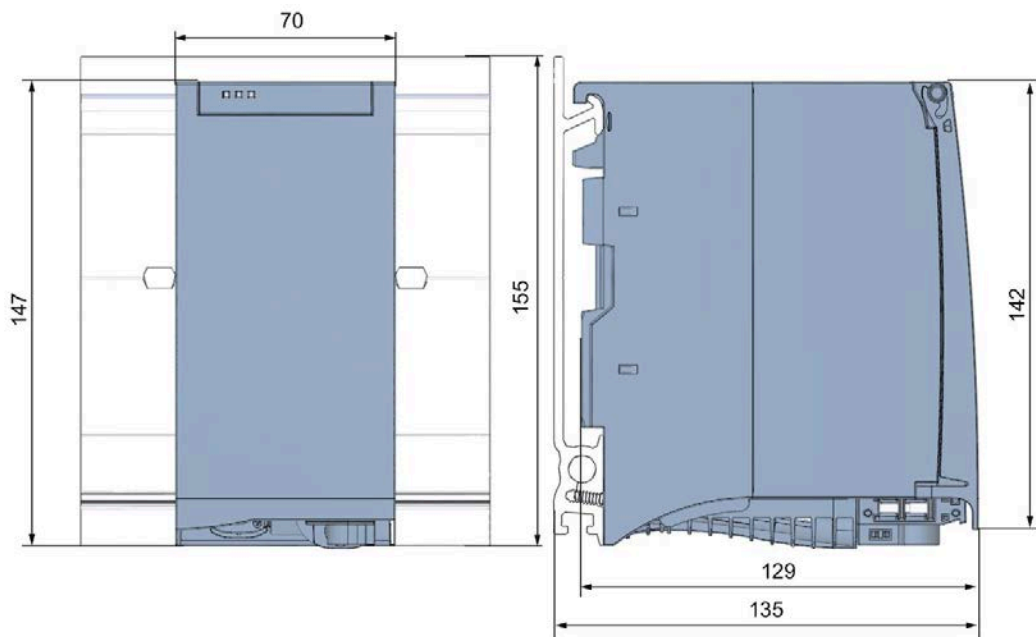


Figure A-1 Dimensional drawing of the PS 60W 120/230V AC/DC module

This figure shows the dimensions of the module with open front panel.

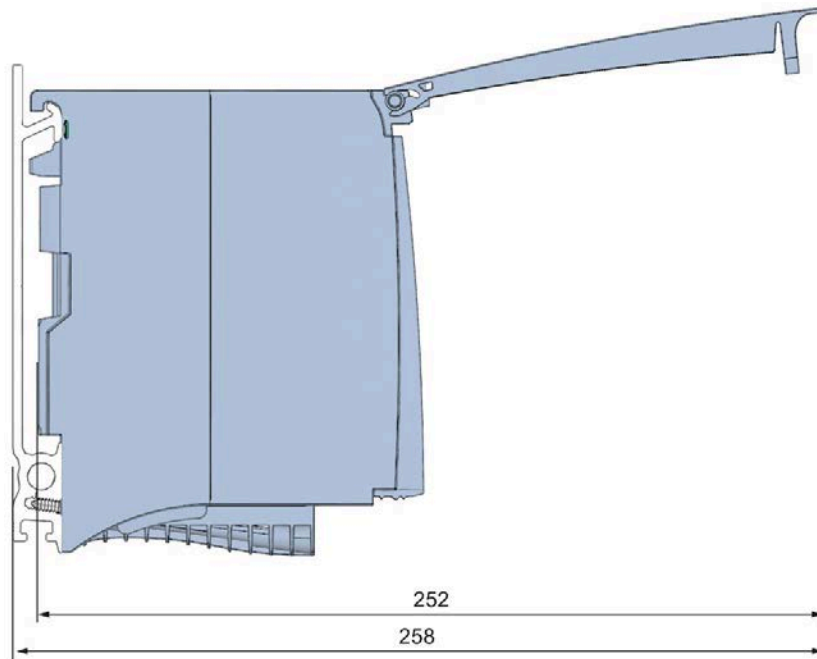


Figure A-2 Dimensional drawing of the PS 60W 120/230V AC/DC module, side view with open front panel

## Parameter data record

### Parameter assignment in the user program

You have the option to re-parameterize the power supply module in RUN mode of CPU.

### Changing parameters in RUN mode

The parameters for the power supply module are contained in data record 0. You can use the WRREC instruction to transfer the configurable parameters to the power supply module. The parameters assigned in STEP 7 are not changed permanently in the CPU, which means the parameters assigned in STEP 7 are valid again after a restart.

### Output parameter RET\_VAL

The power supply module ignores errors that occur during transfer of parameters with the WRREC instruction and continues operation with the previous parameter assignment. However, a corresponding error code is written to the RET\_VAL output parameter. If no error occurs, the length of the data actually transferred is entered in RET\_VAL.

RET\_VAL is 4 bytes long and structured as follows:

- Byte1: Function\_Num, general error code
- Byte2: Error Decode, location of the error detection
- Byte3: Error\_Code\_1, error detection
- Byte4: Error\_Code\_2, manufacturer-specific expansion of the error detection

The description of the WRREC instruction and the general error codes are available in the STEP 7 online help.

Module-specific errors are displayed by means of Error\_Code\_1 = 224<sub>D</sub> or Error\_Code\_1 = 225<sub>D</sub>.

Manufacturer-specific expansions of the error detection of the WRREC instruction have the following meaning:

Table B- 1 Manufacturer-specific expansions of the error detection of the WRREC instruction

| Error_Code 1  | Error_Code 2    | Meaning   |
|---|-----------------|---|
| 224 <sub>D</sub><br>Error in the data record header                               | 1 <sub>D</sub>  | The version entered in the data record header is not supported by the module or reserved bits of the version are set. |
|   | 2 <sub>D</sub>  | The net length entered in the data record header is incorrect.  |
| 225 <sub>D</sub><br>Error in the net data (parameters) entered in the data record | 1 <sub>D</sub>  | Diagnostic interrupt enable is incorrect  |
|   | 16 <sub>D</sub> | Reserved parameters are not 0   |

## Data record structure

The following figure shows the structure of the data record 0.

- A fixed bit pattern is entered in byte 0. It indicates the version of the data record structure. Each time a data record is written, the module checks the written data and accepts only data records with major version 1.
- Byte 1 specifies the maximum data length that can be used for parameter data.
- Byte 2 contains the parameter data.
- Bytes 3 to 11 are reserved.

To enable a parameter in byte 2, set the corresponding bit to "1". The corresponding diagnostics is then activated, for example, for supply voltage monitoring. If you set the corresponding bit to "0", the diagnostics is deactivated.

You are not permitted to change byte 0, byte 1 or bytes 3 to 11.

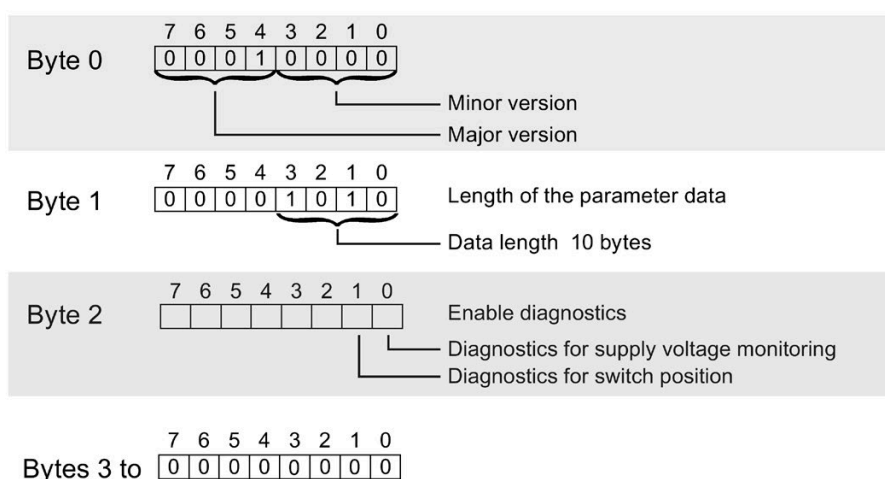


Figure B-1 Structure of data record 0