



SIMATIC S7-1500, System power supply with buffer functionality PS 60W 24/48/60V DC HF, supplies the backplane bus of the S7-1500 with operating voltage and permits the CPU to retain RAM (data) retentively

| General information                                           |                                                                                                                                                   |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type designation                                      | PS 60 W 24/48/60 V DC HF                                                                                                                          |
| HW functional status                                          | from FS01                                                                                                                                         |
| Firmware version                                              | from V1.0.0                                                                                                                                       |
| Engineering with                                              |                                                                                                                                                   |
| • STEP 7 TIA Portal configurable/integrated from version      | V14 SP1                                                                                                                                           |
| Supply voltage                                                |                                                                                                                                                   |
| Rated value (DC)                                              | 24 V / 48 V / 60 V                                                                                                                                |
| permissible range, lower limit (DC)                           | 19.2 V; Static 19.2 V, dynamic 18.5 V                                                                                                             |
| permissible range, upper limit (DC)                           | 72 V; Static 72 V, dynamic 75.5 V                                                                                                                 |
| Reverse polarity protection                                   | Yes                                                                                                                                               |
| Short-circuit protection                                      | Yes                                                                                                                                               |
| Mains buffering                                               |                                                                                                                                                   |
| • Mains/voltage failure stored energy time                    | 20 ms                                                                                                                                             |
| Input current                                                 |                                                                                                                                                   |
| Rated value at 24 V DC                                        | 3 A                                                                                                                                               |
| Rated value at 48 V DC                                        | 1.5 A                                                                                                                                             |
| Rated value at 60 V DC                                        | 1.2 A                                                                                                                                             |
| Inrush current, max.                                          | ≤ 8 A for t ≤ 1 s                                                                                                                                 |
| Output current                                                |                                                                                                                                                   |
| Short-circuit protection                                      | Yes                                                                                                                                               |
| Power                                                         |                                                                                                                                                   |
| Infeed power to the backplane bus                             | 60 W                                                                                                                                              |
| Power loss                                                    |                                                                                                                                                   |
| Power loss at nominal rating conditions                       | 12 W                                                                                                                                              |
| Interrupts/diagnostics/status information                     |                                                                                                                                                   |
| Status indicator                                              | Yes                                                                                                                                               |
| Isolation                                                     |                                                                                                                                                   |
| Isolation tested with                                         | 2 500 V DC (type test)                                                                                                                            |
| EMC                                                           |                                                                                                                                                   |
| Interference immunity against voltage surge                   |                                                                                                                                                   |
| • Interference immunity on supply lines acc. to IEC 61000-4-5 | Yes; ±1 kV (acc. to IEC 61000-4-5; 1995; surge symm.), ±2 kV (acc. to IEC 61000-4-5; 1995; surge asymm.), no external protective circuit required |
| Degree and class of protection                                |                                                                                                                                                   |
| Equipment protection class                                    | I, with protective conductor                                                                                                                      |
| Ambient conditions                                            |                                                                                                                                                   |
| Ambient temperature during operation                          |                                                                                                                                                   |
| • min.                                                        | -25 °C; up to FS02: 0 °C                                                                                                                          |
| • max.                                                        | 60 °C                                                                                                                                             |

|                                                   |                          |
|---------------------------------------------------|--------------------------|
| • horizontal installation, min.                   | -25 °C; up to FS02: 0 °C |
| • horizontal installation, max.                   | 60 °C                    |
| • vertical installation, min.                     | -25 °C; up to FS02: 0 °C |
| • vertical installation, max.                     | 40 °C                    |
| Ambient temperature during storage/transportation |                          |
| • min.                                            | -40 °C                   |
| • max.                                            | 70 °C                    |
| Altitude during operation relating to sea level   |                          |
| • Installation altitude above sea level, max.     | 2 000 m                  |

|            |        |
|------------|--------|
| Dimensions |        |
| Width      | 105 mm |
| Height     | 147 mm |
| Depth      | 129 mm |

|                 |       |
|-----------------|-------|
| Weights         |       |
| Weight, approx. | 865 g |

|                 |        |         |                |
|-----------------|--------|---------|----------------|
| Classifications |        |         |                |
|                 |        | Version | Classification |
|                 | eClass | 16      | 27-24-22-09    |
|                 | eClass | 14      | 27-24-22-09    |
|                 | eClass | 12      | 27-24-22-09    |
|                 | eClass | 9.1     | 27-24-22-09    |
|                 | eClass | 9       | 27-24-22-09    |
|                 | eClass | 8       | 27-24-22-09    |
|                 | eClass | 7.1     | 27-24-22-09    |
|                 | eClass | 6       | 27-24-22-09    |
|                 | ETIM   | 10      | EC000599       |
|                 | ETIM   | 9       | EC000599       |
|                 | ETIM   | 8       | EC000599       |
|                 | ETIM   | 7       | EC000599       |
|                 | IDEA   | 4       | 3575           |
|                 | UNSPSC | 15      | 32-15-17-06    |

|                          |  |
|--------------------------|--|
| Approvals / Certificates |  |
| General Product Approval |  |



[Miscellaneous](#)



|                          |                                |
|--------------------------|--------------------------------|
| General Product Approval | For use in hazardous locations |
|--------------------------|--------------------------------|

[BIS CRS](#)

[Manufacturer Declaration](#)

[China RoHS](#)



|                                |
|--------------------------------|
| For use in hazardous locations |
|--------------------------------|

[FM](#)

[CCC-Ex](#)



[Type Examination Certificate](#)

[Miscellaneous](#)

|                                |                      |
|--------------------------------|----------------------|
| For use in hazardous locations | Maritime application |
|--------------------------------|----------------------|



[CCC-Ex](#)



#### Maritime application

[NK / Nippon Kaiji Ky-  
okai](#)



[CCS \(China Classifica-  
tion Society\)](#)

[KR \(Korean Register  
of Shipping\)](#)

last modified:

10/23/2025