



SIMATIC S7-1500, System power supply PS 25W 24 V DC, supplies the backplane bus of the S7-1500 with operating voltage

| General information | |
|--|---|
| Product type designation | PS 25W 24VDC |
| HW functional status | from FS01 |
| Firmware version | from V1.0.0 |
| Engineering with | |
| <ul style="list-style-type: none"> STEP 7 TIA Portal configurable/integrated from version | V12 / V12 |
| <ul style="list-style-type: none"> STEP 7 configurable/integrated from version | V5.5 SP3 or higher |
| Supply voltage | |
| Rated value (DC) | 24 V |
| permissible range, lower limit (DC) | 19.2 V; Static 19.2 V, dynamic 18.5 V |
| permissible range, upper limit (DC) | 28.8 V; Static 28.8 V, dynamic 30.2 V |
| Reverse polarity protection | Yes |
| Short-circuit protection | Yes |
| Mains buffering | |
| <ul style="list-style-type: none"> Mains/voltage failure stored energy time | 20 ms |
| Input current | |
| Rated value at 24 V DC | 1.3 A |
| Output current | |
| Short-circuit protection | Yes |
| Power | |
| Infeed power to the backplane bus | 25 W |
| Power loss | |
| Power loss at nominal rating conditions | 6.2 W |
| Interrupts/diagnostics/status information | |
| Status indicator | Yes |
| Potential separation | |
| primary/secondary | Yes |
| Isolation | |
| Isolation tested with | 707 V DC (type test) |
| EMC | |
| Interference immunity against voltage surge | <ul style="list-style-type: none"> 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 | III, with protective conductor |
| Ambient conditions | |
| Ambient temperature during operation | <ul style="list-style-type: none"> min. max. |
| | -25 °C; up to FS03: 0 °C 60 °C |

- horizontal installation, min. -25 °C; up to FS03: 0 °C
- horizontal installation, max. 60 °C
- vertical installation, min. -25 °C; up to FS03: 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. | 5 000 m; Restrictions for installation altitudes > 2 000 m, see manual |

| Dimensions | |
|------------|--------|
| Width | 35 mm |
| Height | 147 mm |
| Depth | 129 mm |

| Weights | |
|-----------------|-------|
| Weight, approx. | 350 g |

| Classifications | | | |
|-----------------|--------|---------|----------------|
| | | Version | Classification |
| | 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



[Confirmation](#)



EG-Konf.



CCC



[Miscellaneous](#)

| General Product Approval | other | Dangerous goods | Environment |
|-----------------------------------|----------------------------------|---------------------------------------|---|
| Miscellaneous | Confirmation | Transport Information | Environmental Confirmations |

Environment

[Environmental Confirmations](#)

last modified:

10/23/2025