




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  | FS02  |
| Firmware version  | V1.0.0  |
| Engineering with  |   |
| <ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>      | V12 / V12   |
| <ul style="list-style-type: none"> <li>STEP 7 configurable/integrated from version</li> </ul>                 | 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"> <li>Mains/voltage failure stored energy time</li> </ul>                    | 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"> <li>Interference immunity on supply lines acc. to IEC 61000-4-5</li> </ul> | Yes; $\pm 1$ kV (acc. to IEC 61000-4-5; 1995; surge symm.), $\pm 2$ kV (acc. to IEC 61000-4-5; 1995; surge asymm.), no external protective circuit required |
| Degree and class of protection  |   |
| IP degree of protection   | IP20  |
| Equipment protection class  | III, with protective conductor  |
| Ambient conditions  |   |

|   |  |
|---|--|
| 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                     |
| <b>Dimensions</b>                               |  |
| Width   | 35 mm  |
| Height  | 147 mm   |
| Depth   | 129 mm   |
| <b>Weights</b>                                  |  |
| Weight, approx.                                 | 350 g  |
| <b>last modified:</b>                           | 9/8/2021  |