



SIMATIC S7-1500, SYSTEM POWER SUPPLY PS 25W 24V DC, SUPPLIES THE OPERATING VOLTAGE FOR THE S7-1500 VIA THE BACKPLANE BUS

| General information                                                                                            |                               |
|----------------------------------------------------------------------------------------------------------------|-------------------------------|
| Hardware product version                                                                                       | E01                           |
| Firmware version                                                                                               | V1.0.0                        |
| Engineering with                                                                                               |                               |
| <ul style="list-style-type: none"> <li>STEP 7 TIA Portal can be configured/integrated as of version</li> </ul> | V12 / V12                     |
| <ul style="list-style-type: none"> <li>STEP 7 can be configured/integrated as of version</li> </ul>            | V5.5 SP3 or higher            |
| FH technology                                                                                                  |                               |
| Redundancy                                                                                                     |                               |
| <ul style="list-style-type: none"> <li>Redundancy capability</li> </ul>                                        | Yes                           |
| — for increased power                                                                                          | Yes                           |
| Supply voltage                                                                                                 |                               |
| Rated value (DC)                                                                                               | 24 V; SELV                    |
| permissible range, lower limit (DC)                                                                            | Static 19.2 V, dynamic 18.5 V |
| permissible range, upper limit (DC)                                                                            | Static 28.8 V, dynamic 30.2 V |
| Reverse polarity protection                                                                                    | Yes                           |

|                                                  |                                                                                                                                                         |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| short-circuit protection                         | Yes                                                                                                                                                     |
| <b>Mains buffering</b>                           |                                                                                                                                                         |
| • Mains/voltage failure buffering time           | 20 ms                                                                                                                                                   |
| <b>Output current</b>                            |                                                                                                                                                         |
| short-circuit protection                         | Yes                                                                                                                                                     |
| <b>Power</b>                                     |                                                                                                                                                         |
| Infeed power to the backplane bus                | 25 W                                                                                                                                                    |
| <b>Power losses</b>                              |                                                                                                                                                         |
| Power loss at nominal rating conditions          | 6.2 W                                                                                                                                                   |
| <b>Interrupts/diagnostics/status information</b> |                                                                                                                                                         |
| Status indicator                                 | Yes                                                                                                                                                     |
| <b>Galvanic isolation</b>                        |                                                                                                                                                         |
| primary/secondary                                | Yes; Electrical isolation for max. 60 V AC/75 V DC (base isolation)                                                                                     |
| <b>Isolation</b>                                 |                                                                                                                                                         |
| Isolation checked with                           | 707 V DC (type test)                                                                                                                                    |
| <b>EMC</b>                                       |                                                                                                                                                         |
| <b>Surge immunity</b>                            |                                                                                                                                                         |
| • on the 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 |
| <b>Degree and class of protection</b>            |                                                                                                                                                         |
| Degree of protection to EN 60529                 | IP20                                                                                                                                                    |
| Protection class                                 | 3; with protective conductor                                                                                                                            |
| <b>Dimensions</b>                                |                                                                                                                                                         |
| Width                                            | 35 mm                                                                                                                                                   |
| Height                                           | 147 mm                                                                                                                                                  |
| Depth                                            | 129 mm                                                                                                                                                  |
| <b>Weights</b>                                   |                                                                                                                                                         |
| Weight, approx.                                  | 350 g                                                                                                                                                   |
| <b>last modified:</b>                            | 30.09.2014                                                                                                                                              |