



Figure similar

SIMATIC S7-1500, System power supply PS 60W 24/48/60 V DC, supplies the backplane bus of the S7-1500 with operating voltage

| General information                                           |                                                                                                                                                             |
|---------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product type designation                                      | PS 60 W 24/48/60 V DC                                                                                                                                       |
| HW functional status                                          | from FS04                                                                                                                                                   |
| Firmware version                                              | from V1.0.0                                                                                                                                                 |
| Engineering with                                              |                                                                                                                                                             |
| • STEP 7 TIA Portal configurable/integrated from version      | V12 / V12                                                                                                                                                   |
| • STEP 7 configurable/integrated from version                 | V5.5 SP3 or higher                                                                                                                                          |
| 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                                                                                                                                                       |
| 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                                                                                                                                                         |
| Potential separation                                          |                                                                                                                                                             |
| primary/secondary                                             | Yes; Electrical isolation for 230 V AC (reinforced isolation)                                                                                               |
| Isolation                                                     |                                                                                                                                                             |
| Isolation tested with                                         | 2 500 V DC/2 s (routine test)                                                                                                                               |
| EMC                                                           |                                                                                                                                                             |
| Interference immunity against voltage surge                   |                                                                                                                                                             |
| • Interference immunity on supply lines acc. to IEC 61000-4-5 | 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                                |                                                                                                                                                             |
| Equipment protection class                                    | I, with protective conductor                                                                                                                                |
| Ambient conditions                                            |                                                                                                                                                             |
| Ambient temperature during operation                          |                                                                                                                                                             |

- min. -25 °C; up to FS04: 0 °C
- max. 60 °C
- horizontal installation, min. -25 °C; up to FS04: 0 °C
- horizontal installation, max. 60 °C
- vertical installation, min. -25 °C; up to FS04: 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  | 70 mm  |
| Height | 147 mm |
| Depth  | 129 mm |

#### Weights

|                 |       |
|-----------------|-------|
| Weight, approx. | 600 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

[Miscellaneous](#)

[Manufacturer Declaration](#)



[KC](#)

##### General Product Approval

##### For use in hazardous locations



[BIS CRS](#)



[FM](#)



[FM](#)

##### For use in hazardous locations

[CCC-Ex](#)



[Type Examination Certificate](#)



[Miscellaneous](#)

##### Maritime application



[NK / Nippon Kaiji Kyokai](#)



#### Maritime application



[CCS \(China Classification Society\)](#)



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