



Figure similar

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

General information	
Product type designation	PS 25W 24VDC
HW functional status	FS01
Firmware version	V2.0
<ul style="list-style-type: none"> <li>FW update possible</li> </ul>	Yes
Product function	
<ul style="list-style-type: none"> <li>Voltage measurement</li> </ul>	Yes; 19.2 ... 28.8 V DC ( $\pm 2.5\%$ )
<ul style="list-style-type: none"> <li>Current measurement</li> </ul>	Yes; 0 ... 1.67 A ( $\pm 2.5\%$ )
<ul style="list-style-type: none"> <li>Power measurement</li> </ul>	Yes; 0 ... 25 W ( $\pm 5\%$ )
<ul style="list-style-type: none"> <li>I&amp;M data</li> </ul>	Yes
Engineering with	
<ul style="list-style-type: none"> <li>STEP 7 TIA Portal configurable/integrated from version</li> </ul>	STEP 7 V18 or higher with HSP 0458
<ul style="list-style-type: none"> <li>STEP 7 configurable/integrated from version</li> </ul>	STEP 7 V5.7 or higher SP1 or higher
<ul style="list-style-type: none"> <li>PROFINET from GSD version/GSD revision</li> </ul>	V2.45
Redundancy	
<ul style="list-style-type: none"> <li>Redundancy capability</li> </ul>	Yes
<ul style="list-style-type: none"> <li>— for uprating</li> </ul>	Yes
Installation type/mounting	
Rail mounting	Yes
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	
Current consumption, max.	1.6 A
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
<b>Isolation</b>	
Isolation tested with	707 V DC (type test)
<b>EMC</b>	
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; ±0.5 kV (acc. to IEC 61000-4-5; 2014; surge line to line), ±1 kV (acc. to IEC 61000-4-5; 2014; surge line to earth), no external protective circuit required
<b>Degree and class of protection</b>	
IP degree of protection	20
Equipment protection class	III
<b>product functions / security / header</b>	
signed firmware update	Yes
<b>Ambient conditions</b>	
Ambient temperature during operation	
<ul style="list-style-type: none"> <li>min.</li> <li>max.</li> <li>horizontal installation, min.</li> <li>horizontal installation, max.</li> <li>vertical installation, min.</li> <li>vertical installation, max.</li> </ul>	<ul style="list-style-type: none"> <li>-30 °C</li> <li>60 °C</li> <li>-25 °C</li> <li>60 °C</li> <li>-25 °C</li> <li>40 °C</li> </ul>
Ambient temperature during storage/transportation	
<ul style="list-style-type: none"> <li>min.</li> <li>max.</li> </ul>	<ul style="list-style-type: none"> <li>-40 °C</li> <li>70 °C</li> </ul>
Altitude during operation relating to sea level	
<ul style="list-style-type: none"> <li>Installation altitude above sea level, max.</li> </ul>	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

	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	9	EC000599
ETIM	8	EC000599
ETIM	7	EC000599

<b>Approvals / Certificates</b>	
General Product Approval	EMV

[Miscellaneous](#)

[Manufacturer Declaration](#)



EMV	For use in hazardous locations
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[KC](#)

[FM](#)

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