



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
• FW update possible	Yes
Product function	
• Voltage measurement	Yes; 19.2 ... 28.8 V DC ($\pm 2.5\%$)
• Current measurement	Yes; 0 ... 1.67 A ($\pm 2.5\%$)
• Power measurement	Yes; 0 ... 25 W ($\pm 5\%$)
• I&M data	Yes
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	STEP 7 V18 or higher with HSP 0458
• STEP 7 configurable/integrated from version	STEP 7 V5.7 or higher SP1 or higher
• PROFINET from GSD version/GSD revision	V2.45
Redundancy	
• Redundancy capability	Yes
— for uprating	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	
• Mains/voltage failure stored energy time	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
Isolation	
Isolation tested with	707 V DC (type test)
EMC	
Interference immunity against voltage surge	
Interference immunity on supply lines acc. to IEC 61000-4-5	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
Degree and class of protection	
IP degree of protection	20
Equipment protection class	III
product functions / security / header	
signed firmware update	Yes
Ambient conditions	
Ambient temperature during operation	
- min. - max. - horizontal installation, min. - horizontal installation, max. - vertical installation, min. - vertical installation, max.	-30 °C 60 °C -25 °C 60 °C -25 °C 40 °C
Ambient temperature during storage/transportation	
- min. - max.	-40 °C 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

Approvals / Certificates	
General Product Approval	EMV

[Miscellaneous](#)



[KC](#)

For use in hazardous locations

[FM](#)

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