



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; ± 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
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	16	27-24-22-09
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](#)



General Product Approval	
--------------------------	--



[BIS CRS](#)

[China RoHS](#)

[Manufacturer Declaration](#)



General Product Approval	EMV	For use in hazardous locations
--------------------------	-----	--------------------------------



[FM](#)



[FM](#)

For use in hazardous locations

[CCC-Ex](#)



[Type Examination Certificate](#)

[Miscellaneous](#)



For use in hazardous locations	Maritime application
--------------------------------	----------------------

[CCC-Ex](#)



[NK / Nippon Kaiji Kyokai](#)

Maritime application



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

[KR \(Korean Register of Shipping\)](#)

last modified:

4/24/2025 