



SIMATIC S7-1500, System power supply with buffer functionality PS 60W 24/48/60V DC HF, supplies the backplane bus of the S7-1500 with operating voltage and permits the CPU to retain RAM (data) retentively

General information	
Product type designation	PS 60 W 24/48/60 V DC HF
HW functional status	from FS01
Firmware version	from V1.0.0
Engineering with	
• STEP 7 TIA Portal configurable/integrated from version	V14 SP1
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
Inrush current, max.	≤ 8 A for t ≤ 1 s
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
Isolation	
Isolation tested with	2 500 V DC (type 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 FS02: 0 °C
• max.	60 °C

- horizontal installation, min. -25 °C; up to FS02: 0 °C
- horizontal installation, max. 60 °C
- vertical installation, min. -25 °C; up to FS02: 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	105 mm
Height	147 mm
Depth	129 mm

Weights	
Weight, approx.	865 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](#)



General Product Approval **For use in hazardous locations**

[BIS CRS](#)

[Manufacturer Declaration](#)

[China RoHS](#)



For use in hazardous locations

[FM](#)

[CCC-Ex](#)



[Type Examination Certificate](#)

[Miscellaneous](#)

For use in hazardous locations **Maritime application**



[CCC-Ex](#)



Maritime application

[NK / Nippon Kaiji Kyokai](#)



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

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

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