

SIMATIC S7-400, Power supply PS407, 20 A, wide range, UC  
120/230V, 5 V DC/20 A



Figure similar

Supply voltage	
Rated value (DC)	
• 120 V DC	Yes
• 230 V DC	Yes
Rated value (AC)	
• 120 V AC	Yes
• 230 V AC	Yes
Line frequency	
• Rated value 50 Hz	Yes
• Rated value 60 Hz	Yes
• permissible range, lower limit	47 Hz
• permissible range, upper limit	63 Hz
Mains buffering	
• Mains/voltage failure stored energy time	20 ms
• Mains buffering according to NAMUR recommendation	Yes
Input current	

Rated value at 110 V DC	1.4 A; at 120 V DC
Rated value at 230 V DC	0.7 A
Rated value at 120 V AC	1.4 A
Rated value at 230 V AC	0.7 A
Inrush current, max.	88 A; Full width at half maximum 1.1 ms
Leakage current, max.	3.5 mA

Output voltage	
Type of output voltage	DC
Rated value (DC)	
• 5 V DC	Yes
• 24 V DC	Yes

Output current	
for backplane bus (5 V DC), max.	20 A; no base load required
for backplane bus (24 V DC), max.	1 A; idling-proof
Short-circuit protection	Yes

Power	
Active power input, typ.	158 W

Power loss	
Power loss, typ.	35 W

Battery	
Backup battery	
• Backup battery (optional)	Yes; 1x lithium AA; 3.6 V / 2.2 Ah

Hardware configuration	
Slots	
• required slots	2

Potential separation	
primary/secondary	Yes

Isolation	
Overvoltage category	II

EMC	
Compliance with line harmonic distortion limits	
• Compliance with line harmonic distortion acc. to IEC 61000-3-2, IEC 61000-3-3	Yes

Degree and class of protection	
Equipment protection class	I, with protective conductor

Standards, approvals, certificates	
FM approval	Yes; Ta: 0 °C to 70 °C T4

Ambient conditions	
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#### Ambient temperature during operation

- min. 0 °C
- max. 60 °C

#### Connection method

Design of electrical connection 3x 1.5 mm<sup>2</sup>, solid or stranded wire with end sleeve, external diameter 3 mm to 9 mm

#### Dimensions

Width	50 mm
Height	290 mm
Depth	217 mm

#### Weights

Weight, approx. 1 300 g

**last modified:** 06/09/2020